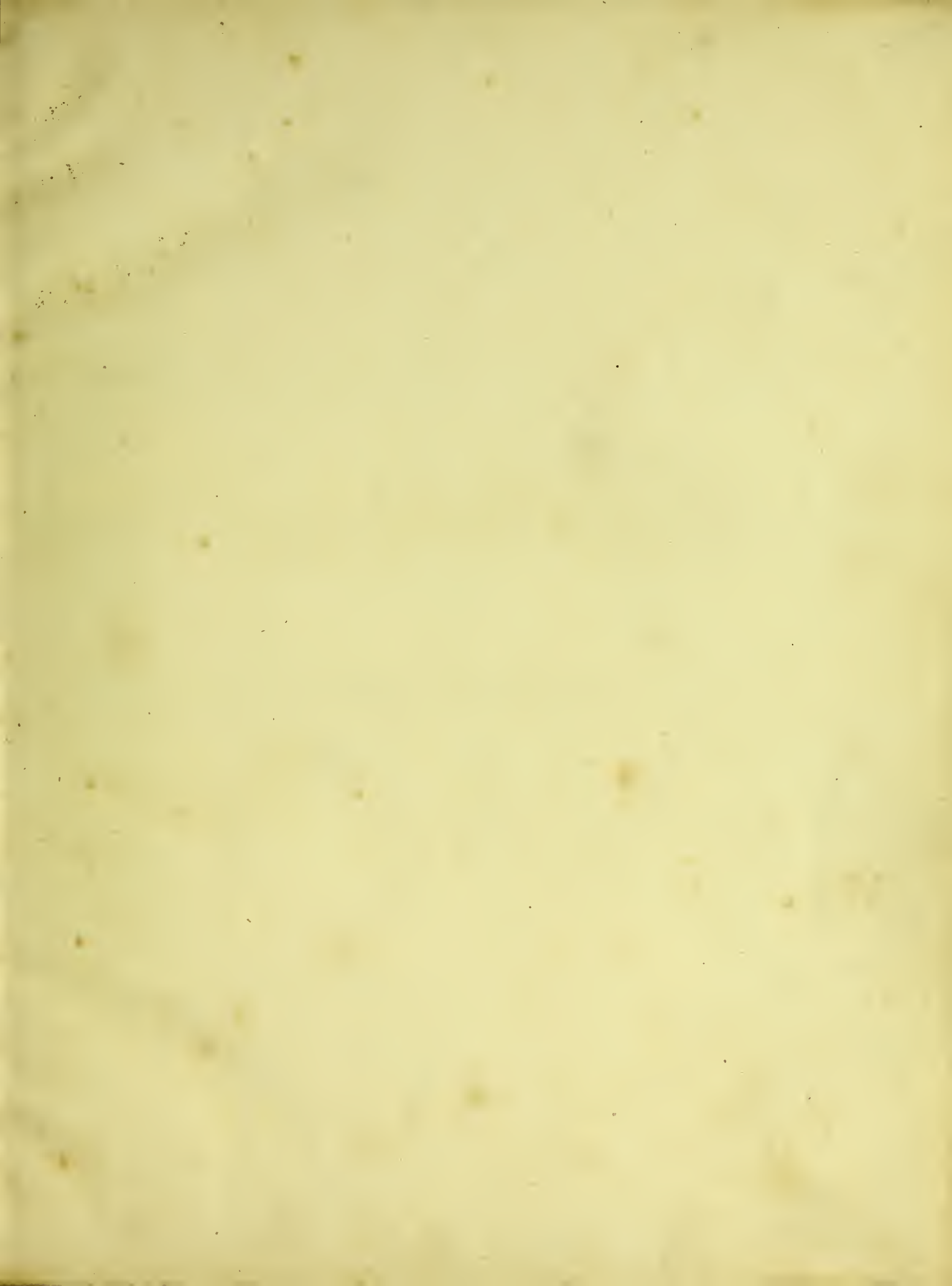
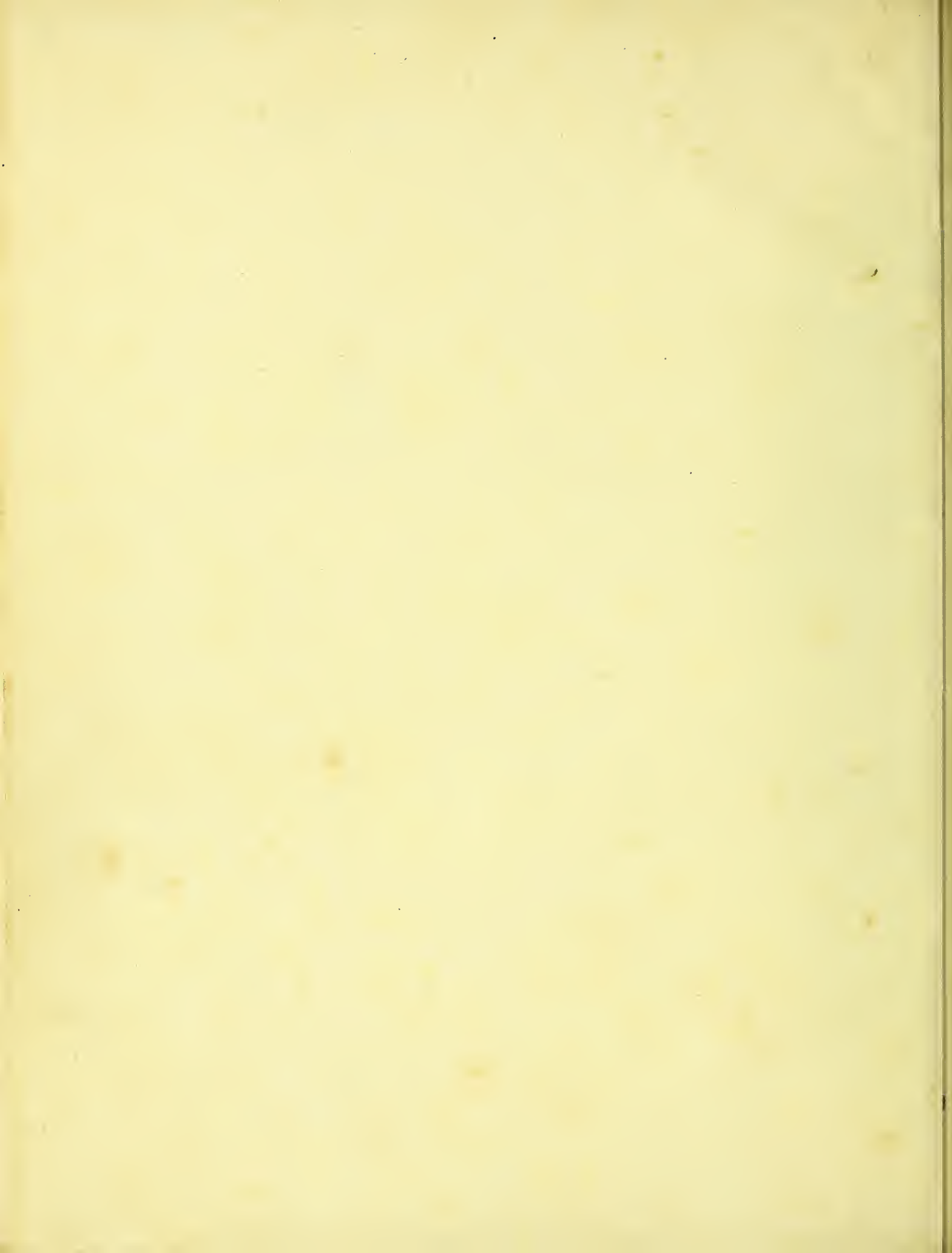


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LITHOGRAPHED SIGNATURES

OF THE MEMBERS

OF THE

British Association for the Advancement of Science,

WHO MET AT CAMBRIDGE, JUNE M.DCCC.XXXIII.

WITH

A REPORT

OF

THE PROCEEDINGS AT THE PUBLIC MEETINGS

DURING THE WEEK;

AND

AN ALPHABETICAL LIST OF THE MEMBERS.

CAMBRIDGE:

PRINTED AT THE PITT PRESS, BY JOHN SMITH,
PRINTER TO THE UNIVERSITY.

M.DCCC.XXXIII.



P R E F A C E.

At the General Meetings of the BRITISH ASSOCIATION which took place at Cambridge, besides the Reports and Abstracts which form the materials of its Transactions, and which will appear in the Annual Report, occasional circumstances gave rise to several oral addresses from various persons; some record of which, it was thought, might interest the Members of the Association. And as it was intended to distribute among them a few pages containing the lithographed list of signatures, it was thought that it might not be unacceptable to combine with that list a report of what was thus spoken: though the speeches necessarily contained much which might be considered of too personal and occasional a nature to meet the public eye. Some account of what was said at the General Meetings is, therefore, here furnished, together with an account of what took place at the two entertainments given in the Hall of Trinity College—the one by the College, and the other by the resident Members of the University.

These accounts are compiled from materials supplied by a Reporter engaged by the Association; who is, therefore, to be considered in a great measure responsible for what is here published. A few of the resident Members of the University have, however, lent their assistance in correcting the reports of what they themselves delivered during the Meeting: but as it was found impossible to communicate with the absent Members of the Association while these sheets were passing through the press, it is feared that several portions of what is now published may very inadequately represent the sentiments and expressions of some who personally took a part in the proceedings.

As a request has been made that a memorandum should be preserved of the mode adopted at the Cambridge Meeting for preventing delay or confusion upon the application of Members for their tickets, the following sketch may perhaps answer the purpose, and also suggest some improvements for the future Meetings.

1. There should be a Treasurer's room, at which all Visitors may be directed to apply immediately on their arrival, and where a statement of what they are to do should be put into their hands.

2. The Treasurer should be provided with a set of tickets (at table A) previously numbered. These are to be filled up with the names of the applicants in the exact order in which they make application for them.

N.B. The form of the ticket may run thus: the words in *Italics* being the portion filled up after application has been made.

No. 1.	<i>A*** S*****.</i>
Lodgings in Cambridge, }	<i>Trinity College.</i>
This Ticket to be taken to the Secretary's room, and exchanged for the General Ticket of Admission.	

3. There should be two Clerks or Assistants, one on each side of the Treasurer. The duty of one should be to take down the *general address* of each applicant, for future use. The other Clerk should be provided with blank lists, regularly numbered, which he should fill up with the name and *present lodging* of the several applicants, copied from the above card. As these latter lists are filled up they may be sent off to the press, and formed into a small octavo volume, of which fresh editions may be prepared for distribution every morning among the Members.

4. There should be a second table (B), at which some person should preside to give information respecting lodgings &c. &c.: that all discussion or delay on these points may be avoided at table (A), which experience has shown to be a matter of some importance. If the applications at (A) become so numerous as to crowd the room, numbered cards may be given to the parties, and they may retire to another room till called for in rotation. Such tickets were prepared but not wanted at Cambridge.

5. Each person after receiving the Treasurer's ticket should proceed to the Secretary's room for his general ticket of admission. The Secretary's room should be contiguous to the Treasurer's.

6. If it be intended to adopt the plan of lithographing the signatures, there should be (at table C) in the Secretary's room, *two* books prepared for this purpose. The entries may be made in *common* ink; and the lithographer can then easily rearrange the names according to the numerals attached to them. The Cambridge list was written with *prepared* ink, which has occasioned considerable delay in working off the impressions, from its having been found necessary to retouch some of the copies, and to clean the stones where errors and blots had been made. The Treasurer's ticket should be cancelled after the signature has been obtained, and the applicant then directed to table (D).

7. The cancelled tickets should be exchanged at table (D) for the *general ticket of admission*. These general tickets should be previously numbered, but none of them filled up with any name until the applicant appear.

N. B. The cancelled tickets may readily be arranged alphabetically every evening, and thus an index can be quickly made out and added to the printed list of addresses, which are to appear every morning in the manner above described. This index need contain nothing more than the surnames and Nos. in small type. The preparation of these lists was not thought of at the Cambridge Meeting, but would be a great improvement.

The Editors of this Volume return their sincere thanks to the SYNDICS of the UNIVERSITY PRESS, for their liberal assistance in printing the typographical part free of expense.

They also beg leave to state distinctly, that its publication is not to be considered as an official act of the Council; but that it has been prepared at the private suggestions of several Members of the Association. They have endeavoured cautiously to abstain from introducing any matter whatever which might be thought to interfere with the regular Annual Report.

35. John Stevens Henslow, Botany, Cambridge.
18. Humming. Chemistry. Cambridge
- 190 Wetherbury. Leeds
222. R. C. Alexander. Botany. Corsham. Wilts.
- 201 Mr Potter. Pet. House Cambridge
89. Henry Lathrop Corp. Chr. Coll. Cambridge.
- 223 John Henry Pratt. Caius College, Cambridge
- 199 John Blackwell Nat. Hist. Crompton Hall Lancast
160. Jas Penfold Cheam Surrey.
62. W R Potter Linc. Physics, Lindsey Hall Lancast
188. F. Watkins Geology Bam bro, Doncaster
- 216 Wetherbury Physics St. John's Coll: Cambridge
- 128 J W L Heaviside Physics. St. John's Coll. Ca
- 226 John Graham Jesus Coll Cambridge

208. Rev^d G. Archdall. Emma's Coll.

196. John. Edward. Gray Zoology Brit. Mus.

145 William Aeworth Love Downing Coll

151 Rev^d J. P. Michell Downing. Coll.

93 Charles Chester Downing Coll.

121 Hysomming Christo Coll.

131 Rev^d Fred. Hildyard Trin. Hall

231 Rev^d David Arthur. Minst.

203. Rev^d John Baldwin. Christ's Coll.

217 Rev^d Edward Busby St. John's Coll.

838. John H. Joy. (geology) Trin. Coll. Dublin.

177. G. W. Smyth Trin Coll.

242, W^m Freeman Col Cambridge

245 Charles Blich St. John's College

1875

1. The first of the year was a very dry one.

2. The second of the year was a very wet one.

3. The third of the year was a very dry one.

4. The fourth of the year was a very wet one.

5. The fifth of the year was a very dry one.

6. The sixth of the year was a very wet one.

7. The seventh of the year was a very dry one.

8. The eighth of the year was a very wet one.

9. The ninth of the year was a very dry one.

10. The tenth of the year was a very wet one.

11. The eleventh of the year was a very dry one.

12. The twelfth of the year was a very wet one.

13. The thirteenth of the year was a very dry one.

- W^e
 95. J. Clarkson Regent Street
 107 H. P. Walker M A W. London
 117 Rich^d Foster Brookland Cambridge
 246 Thomas Plyth Langham Essex
 126 John Haviland M.D. Cambridge
 240 Edw^d Gillson Regent Street Cambridge
 211 Sam^l. Sheppard Hurst (Botany) Hills Road Cambridge
 72. W. Whewell (Mathematics) Trinity Coll.
 137. J. L. Hubberts M.D. - Queens College
 127 H. Heady Jesus Lane Cambridge
 190 W. R. Brerell Pembroke Coll. Oxford
 218 Chas Lutwidge Hull Yorkshire
 170 Wm Smyth Prof. of Nat History St. Peter's Coll.
 251. Frederic Thackeray. M.D. Cambridge.

- 250 J. L. Richard Exeter (he is p. 2).
- 202 J. B. Burcham Trin. Coll. Camb.
- 236 Walter Calverley Trevelyan, Wallington, Northumberland
- 254 George Ingram geology Chatteris, Camb.
- 237 Arthur Trevelyan Wallington Northumberland.
- 253 Thomas Thorp Trinity College Cambridge
- 173 James Saunders Sidney College Camb.
82. Charles Cardale Babington. S. John's Coll. Camb.
- 258 John Curtis, Entomology, Upper Charlotte Street
Fitzroy Square, London.
- 88 Robert James Bunch, Botany. Em. Coll.
259. John Barkley Em. Coll.
- 116 W. L. Foster Brooklands Cambridge
132. James Hildyard, Christi College.

My dear Mother

I have been thinking of you very much lately

and wondering how you are getting on

and how the children are getting on

I hope you are all well and happy

and that you are all enjoying the summer

and that you are all having a very good time

I am sure you are all very well and happy

and that you are all enjoying the summer

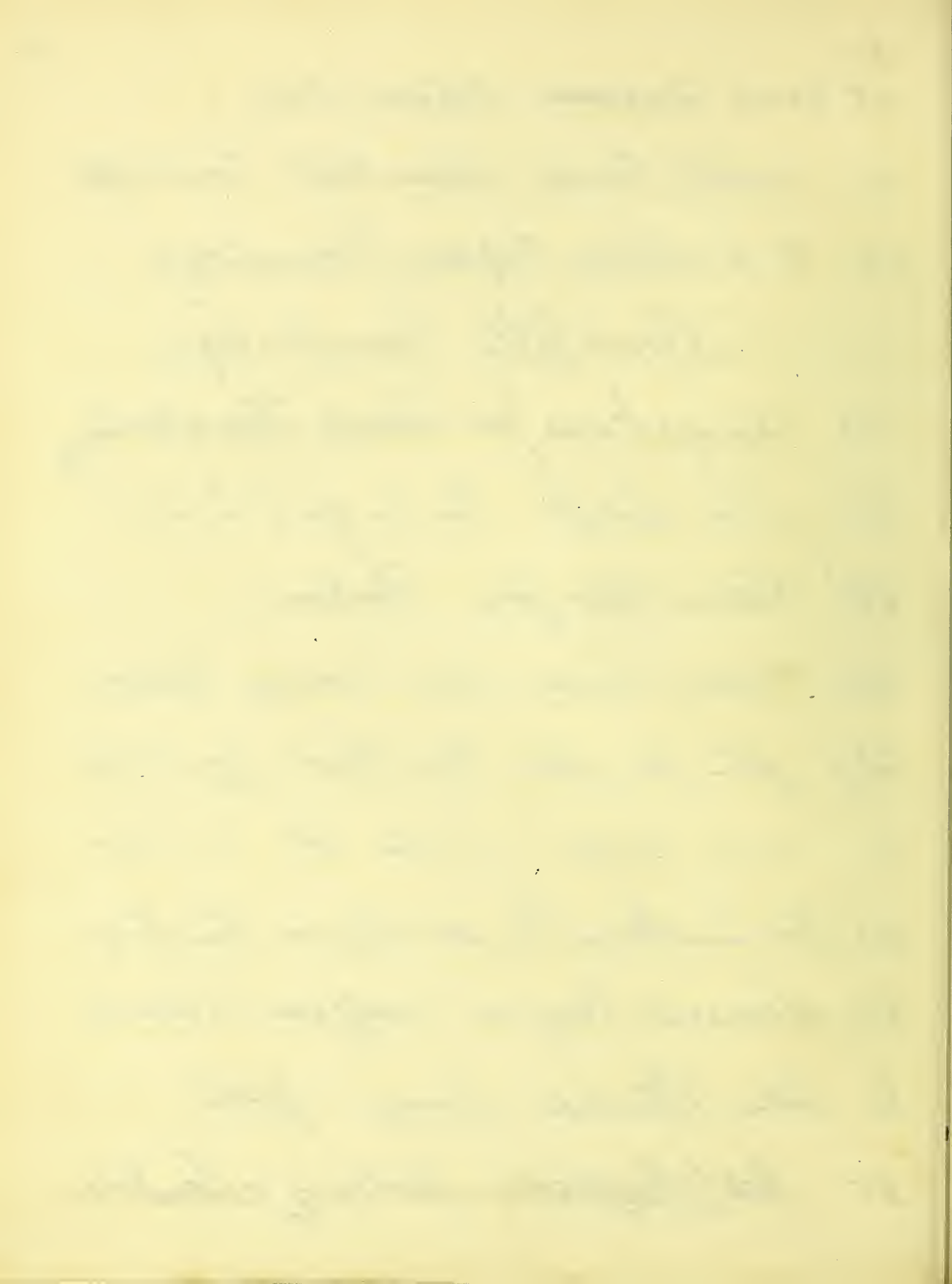
and that you are all having a very good time

I am sure you are all very well and happy

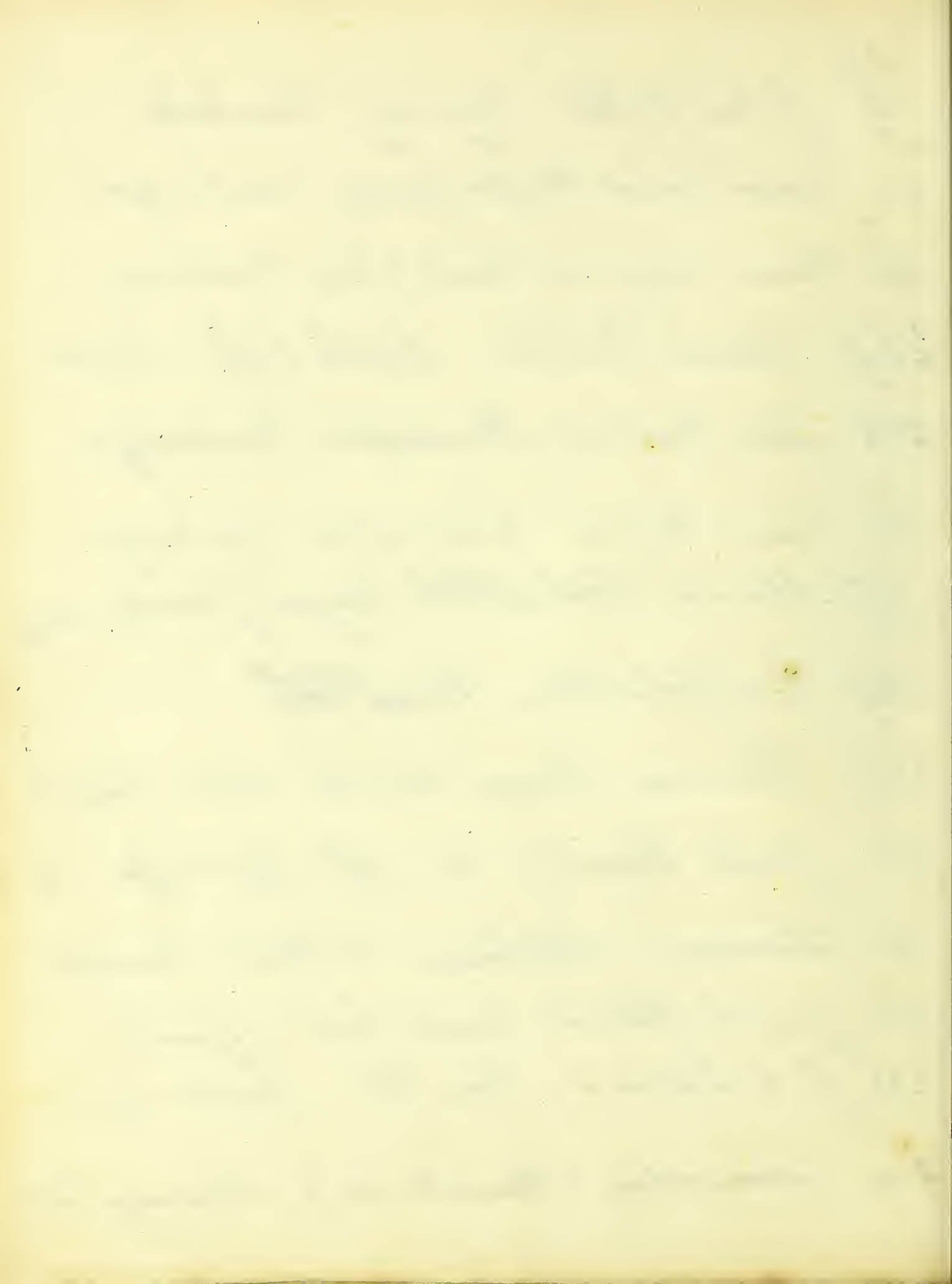
and that you are all enjoying the summer

and that you are all having a very good time

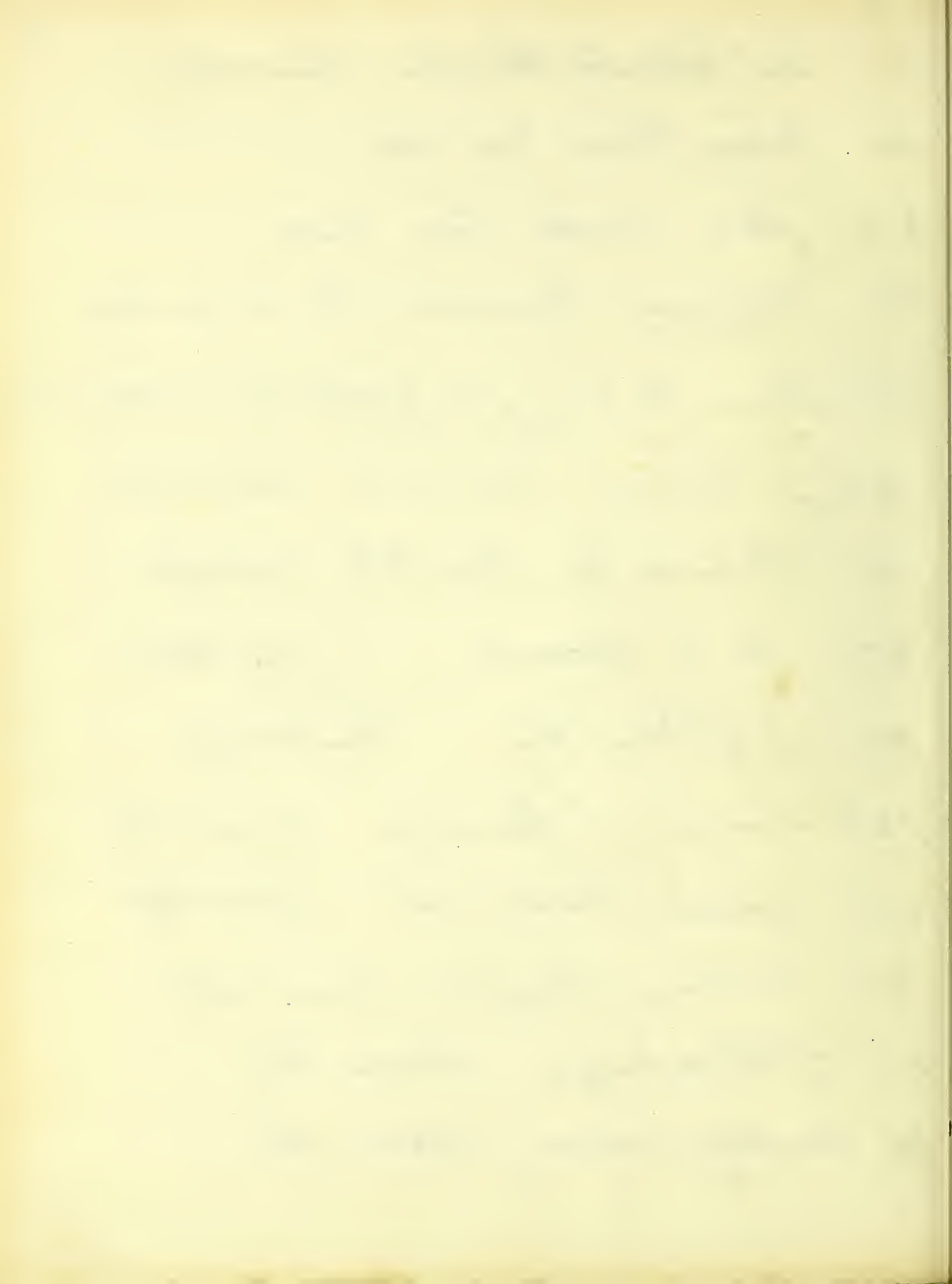
- 148 George Maddison, Catharine Hall.
- 260 Charles Finch, Sidney Street, Cambridge
- 53 W B Miller Professor of Mineralogy
St John's Coll: Cambridge
- 115 Ebenezer Foster Junr: Solicitor Trinity Street Cambridge
- 141 John Lamb Master of C. C. C. C.
- 265 William Wyphen Gilly. Durham.
- 266 William Scoresby, F.R.S. Chemistry, Exeter.
- 239 John Deighton Trinity Street Cambridge
- 191 Charles Whitley St. John's Coll: Cambridge
- 113 Rowland Morris Fawcett Surgeon Cambridge
- 42 Leonard Jenyns Swaffham Bulbeck
- 61 John Phillips Geology - York
- 55 Mod. J. Murchison Geology London



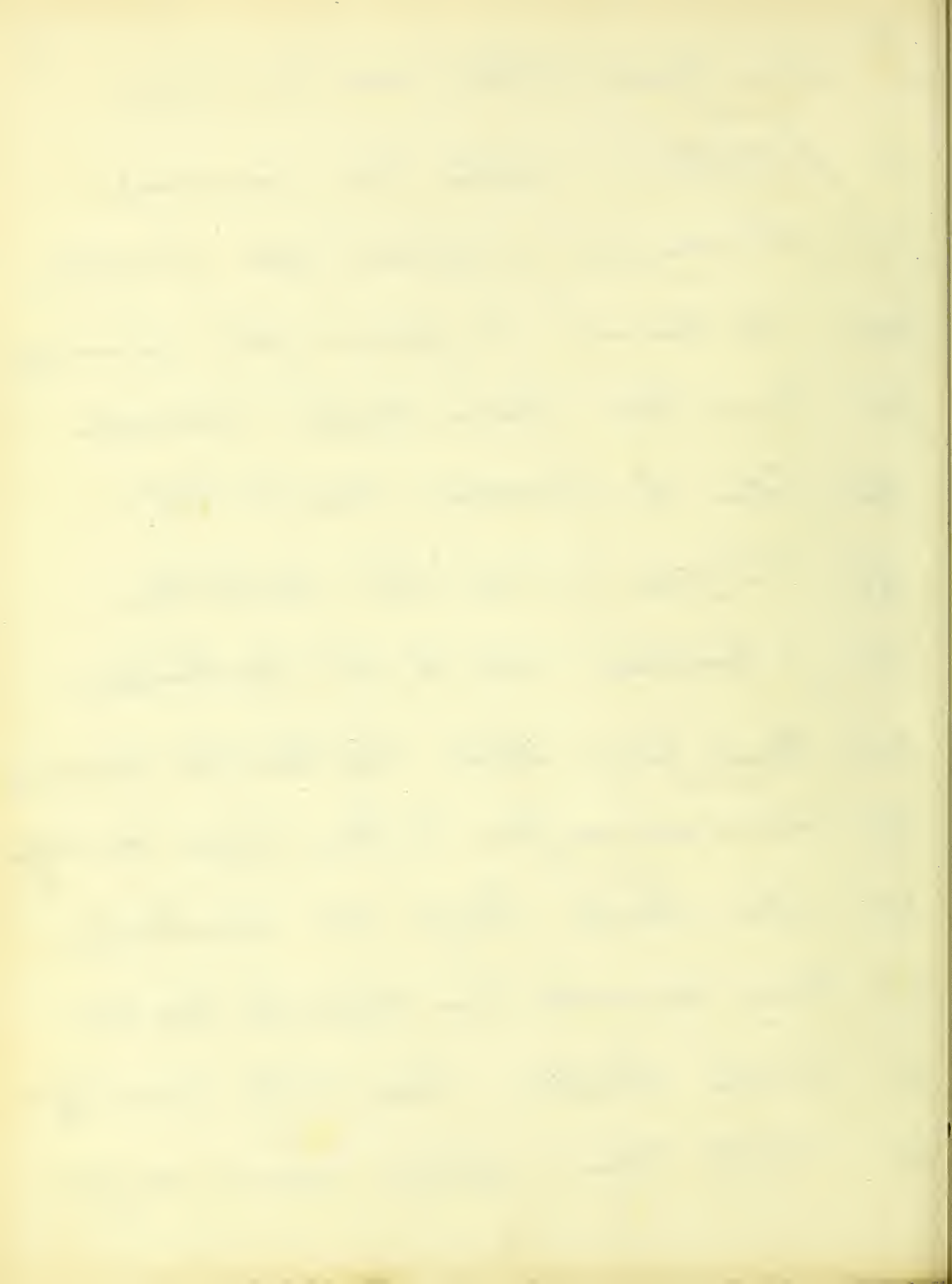
- ¹²
 19 John Dalton Chemistry Manchester
 201. Thomas Smart Hughes Geology Cambridge
 66 Adam Sedgwick Trinity College Cambridge
 269 Robert Walker Wadh. Coll. Oxford
 275 John Hailstone Trumpington Cambridge
 253 Thomas Musgrave Trinity College Cambridge
 77 Alexander Scott M.D., Surgeon General Cambridge
 229 Rev. John Eden Bristol
 277. Thomas Vores Wadh Coll. Oxford
 171 Joseph Romilly Trin. Coll. Cambridge
 181 Lawrence Stephenson St. John's, Cambridge
 278 Joseph Strand Wadh. Coll. Oxford
 273 J. A. Barnes Trin. Coll. Cambridge
 210. Cornwallis Hewett M.D. Downing Coll.



- N^o
114 - Went Foster Sen^r Mill Lane Cambridge
166 William Pirie Trin. Coll.
203 John C. Heath Trin. Hall.
284 A. L. Luce Knebworth Cambridge
228 Thomas W. Gung 20 Grafton St. S. H. Fitzroy Sq.
165 J. Power Trin Hall Cambridge
143 F. W. Loding M^r Clare Hall Cambridge
257 W. A. Warwick Cambridge
240 J. J. Deighton Cambridge
122 Francis J. Gunning Cambridge
296 Charles Finch Jun^r Cambridge
256 William Menzies. - Queen's Coll.
255 G. H. Deane Cambridge Queen's Coll.
303. Humphrey Jackson. S^t. John's Coll.



105. Charles Gate, St. John's Coll. Cambridge
 133 J H Hoare & John Cole Cambridge
 130 H H Hughes St. John's Coll. Cambridge
 304 M. Bland St. John's Coll. Cambridge
 105. Isaac Deek Practical Chemist Cambridge
 83. John. R. Barker Christ's College
 197. J. Lodge, Magd: Coll: Cambridge.
 4. J. Bourstead Corp. Ch. Coll. Cambridge
 306 Henry George Walsh. Corp. Ch. Coll. Cambridge
 307. Joseph Bunnington St. John's College Cambridge
 309 John Sharp Magd. Coll. Cambridge
 308 Harry Longville St. John's Magd: Coll: Cambridge.
 96 Charles Blayton, Caius Coll. Cambridge.
 108 David Don, Botany, Linnean Society



W^h94 W^h Whistler Botany Clapham Road London

293 James Morant Magdalene College Camb:

252 William Cathorne Giff Portsea

85 J^r Barton Strayton Super Mathematics

311 Leapingwell Corpus Christi College Cambridge

247. Col. Llewellyn 55 Low^{er} Grosvenor St London291 Rev^d J^r C^h - Croydon - Surrey90 Rev^d J^r C^h - Cape Clear Hall

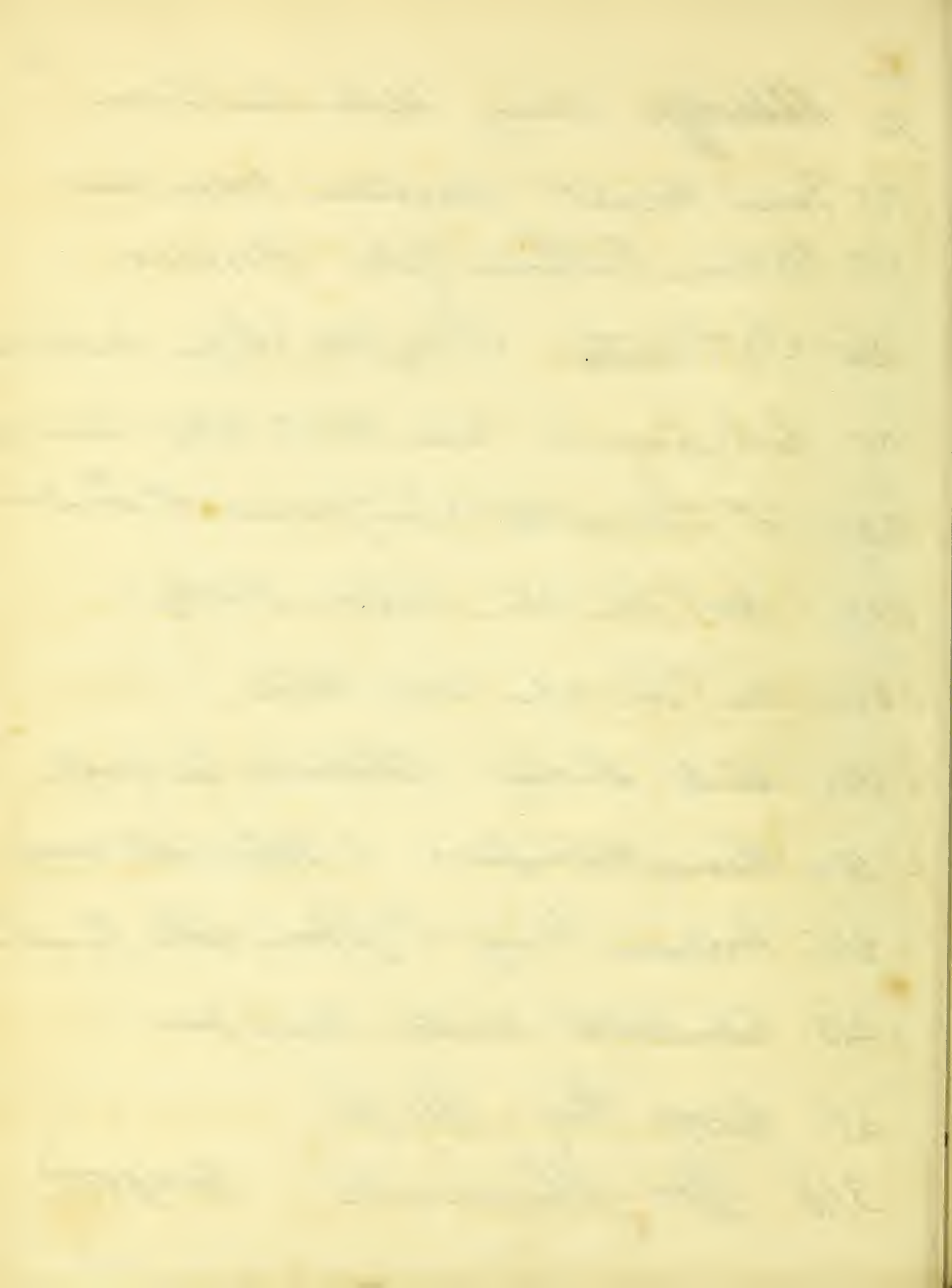
314 Charles Shorting Peterhouse, Cambridge

184 Henry Thompson S^t John's Coll. Camb.315. William Bury S^t John's Coll. Camb.

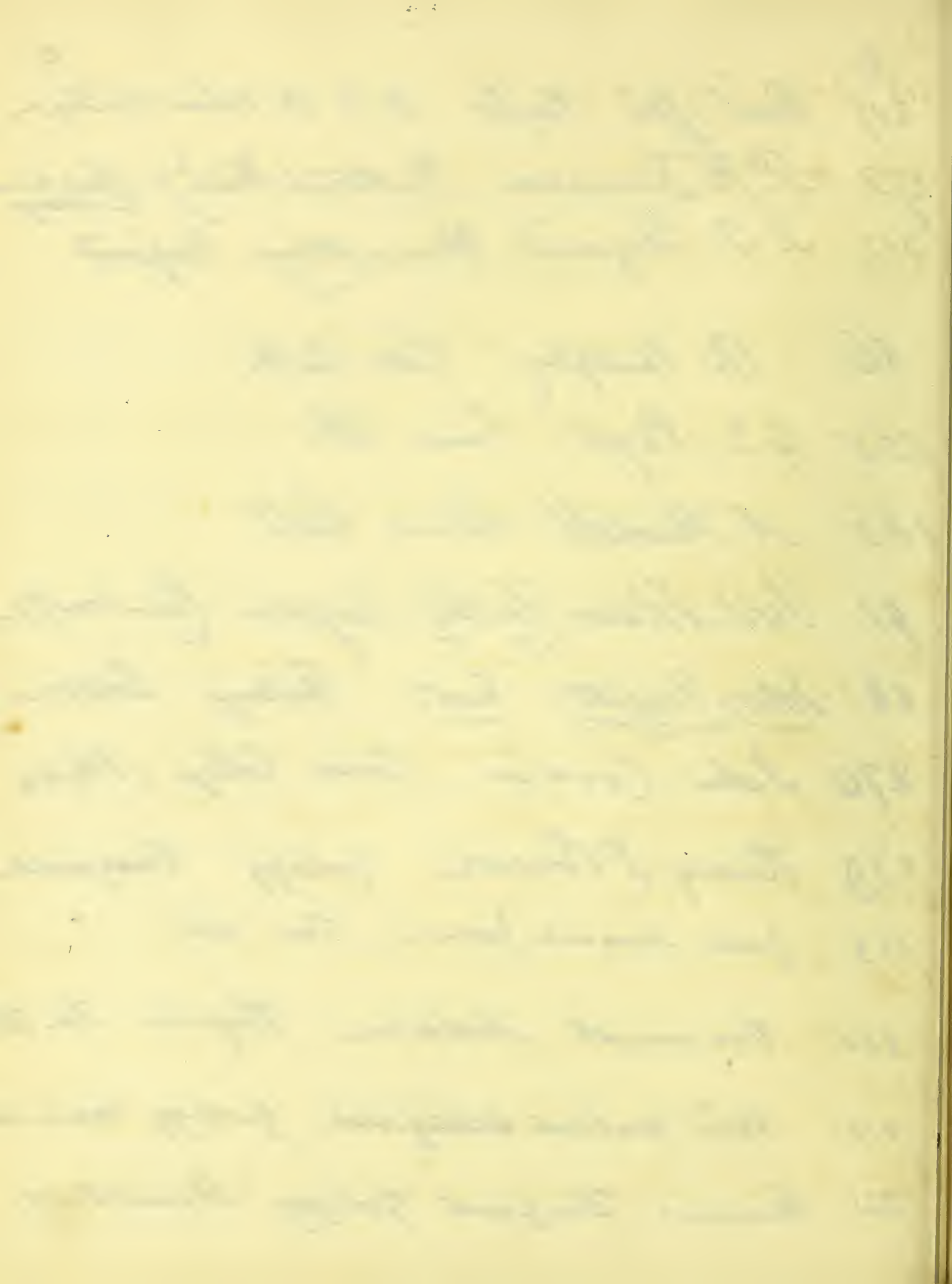
215. Edw Dutton Chemistry Grays Inn. -

294 George Ray Pet. Coll.

316. Wm Thurnall, Duxford



- No.
 207 Rev. J. Taylor B. D. St. John's College
 272. P. B. Duncan Natural Hist. Newnham
 317 S. P. Rigand Observatory Oxford
 56 R. Murphy Cas. Coll.
 155 G. L. Paget Cairns Coll.
 185 A. Thurtell Cairns Coll.
 91 Fred Adam Catty Surpon Cambridge
 68 John Taylor Tras. Zoology London
 270 John Corrie, Cairns College, Physics
 279 Henry S. Boase Geology Penzance
 319 James Smisak Jerome Tenn. Coll.
 320 Viscount Adare Physics Trin Coll.
 212 Rand Richard Waterfield Geology Essex Coll.
 321 Thomas Dugard Geology Brunswick



213 Robert Cory Emman: Coll:

323. Hastings Robinson. St John's Cambridge.

323 J. R. Robinson ^{DD} Trin. Coll. Dub.

Observatory Armagh

59 George Peacock. Trinity College Cambridge

314 Spinoza Cambridge Geography

290 Woolgar, Leves.

101 Wright Surgeon Cambridge

230 Wheeler Watton's Downing St. Cambridge

182. H Mannes Sutton. Trinity Coll:

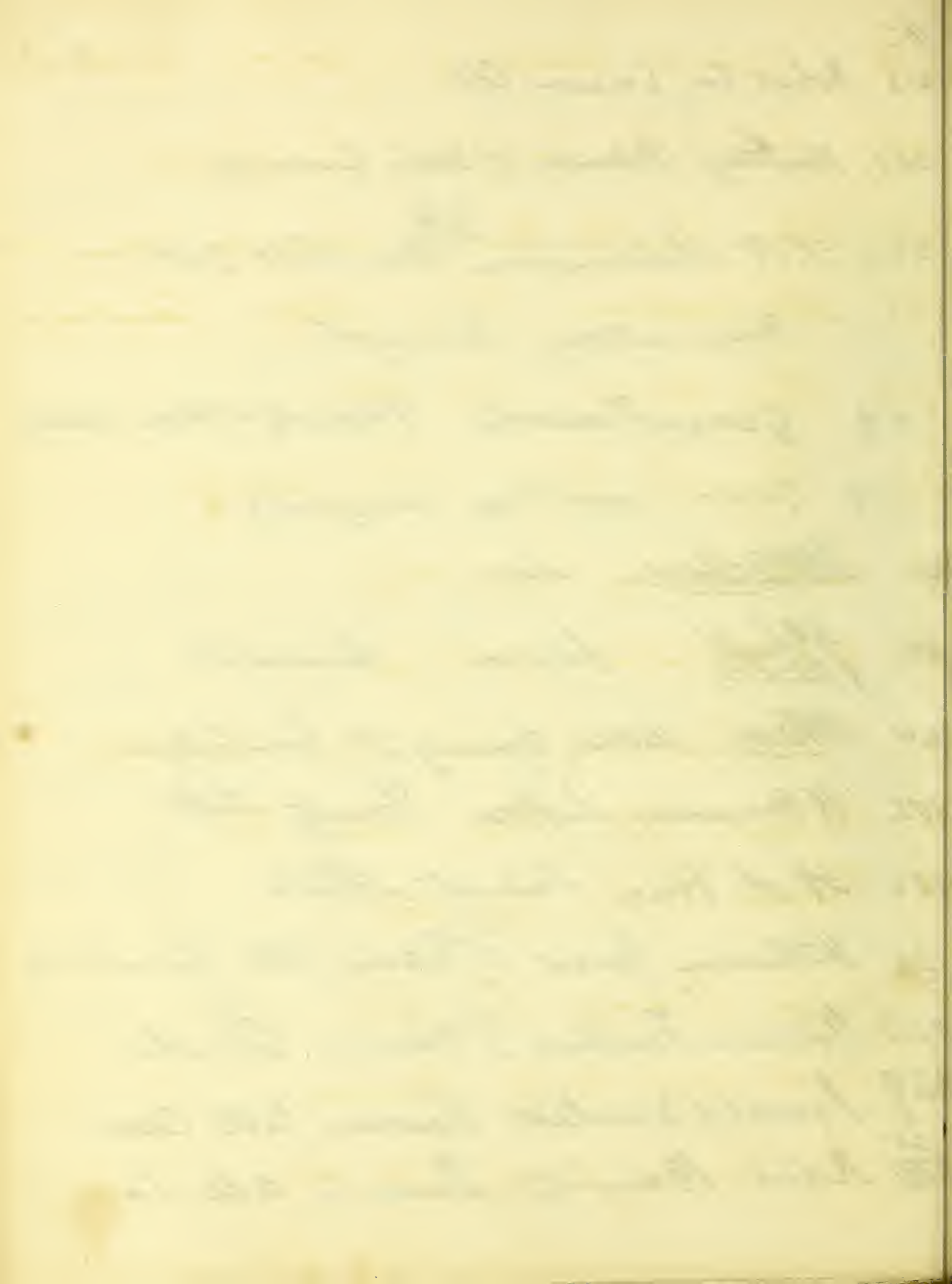
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139. William Jones. St John's Coll: Cambridge

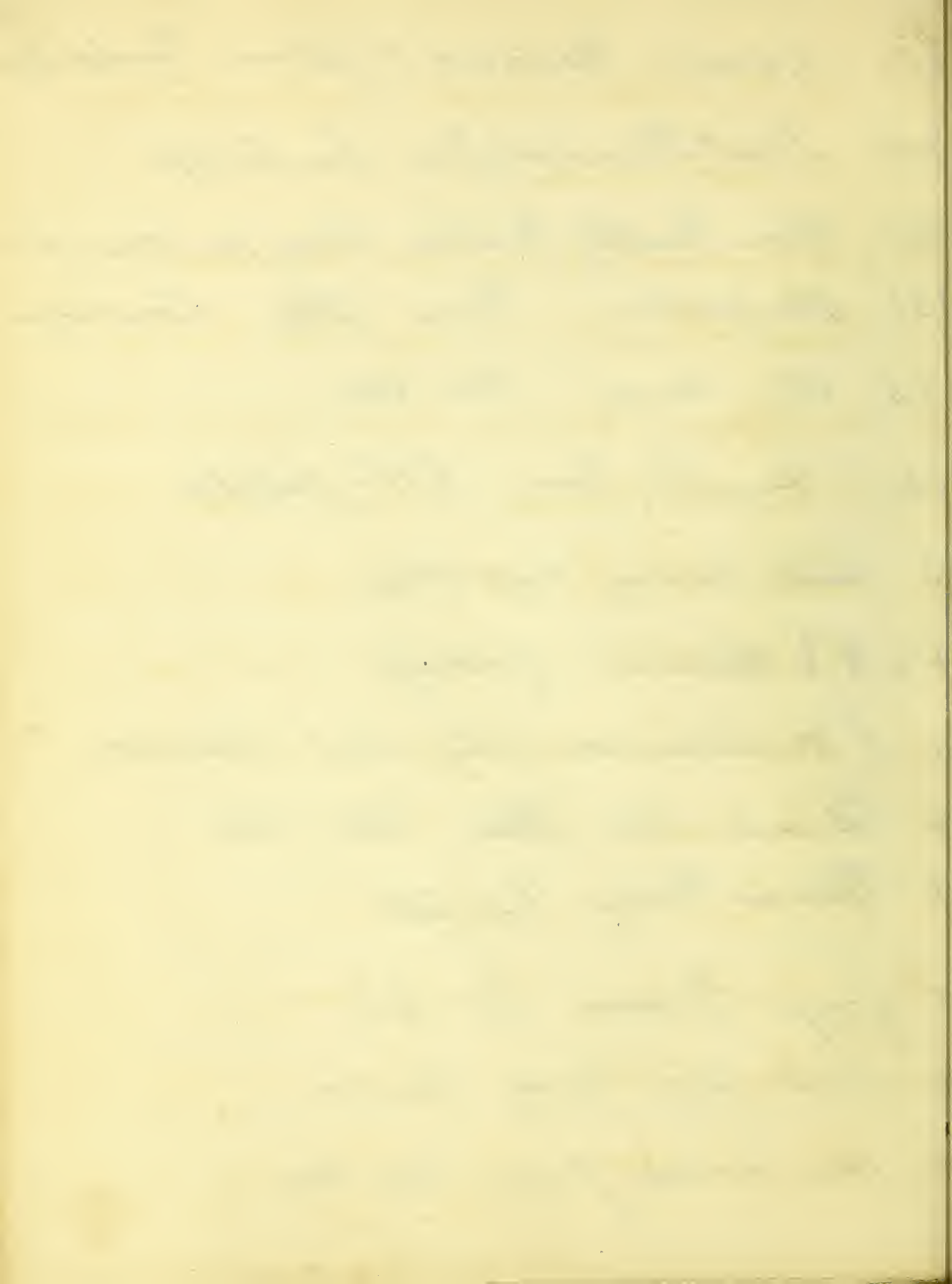
326 William Faulkner Gt Marlow, Bucks

329 Joseph Barless Queens' Coll: Cam:

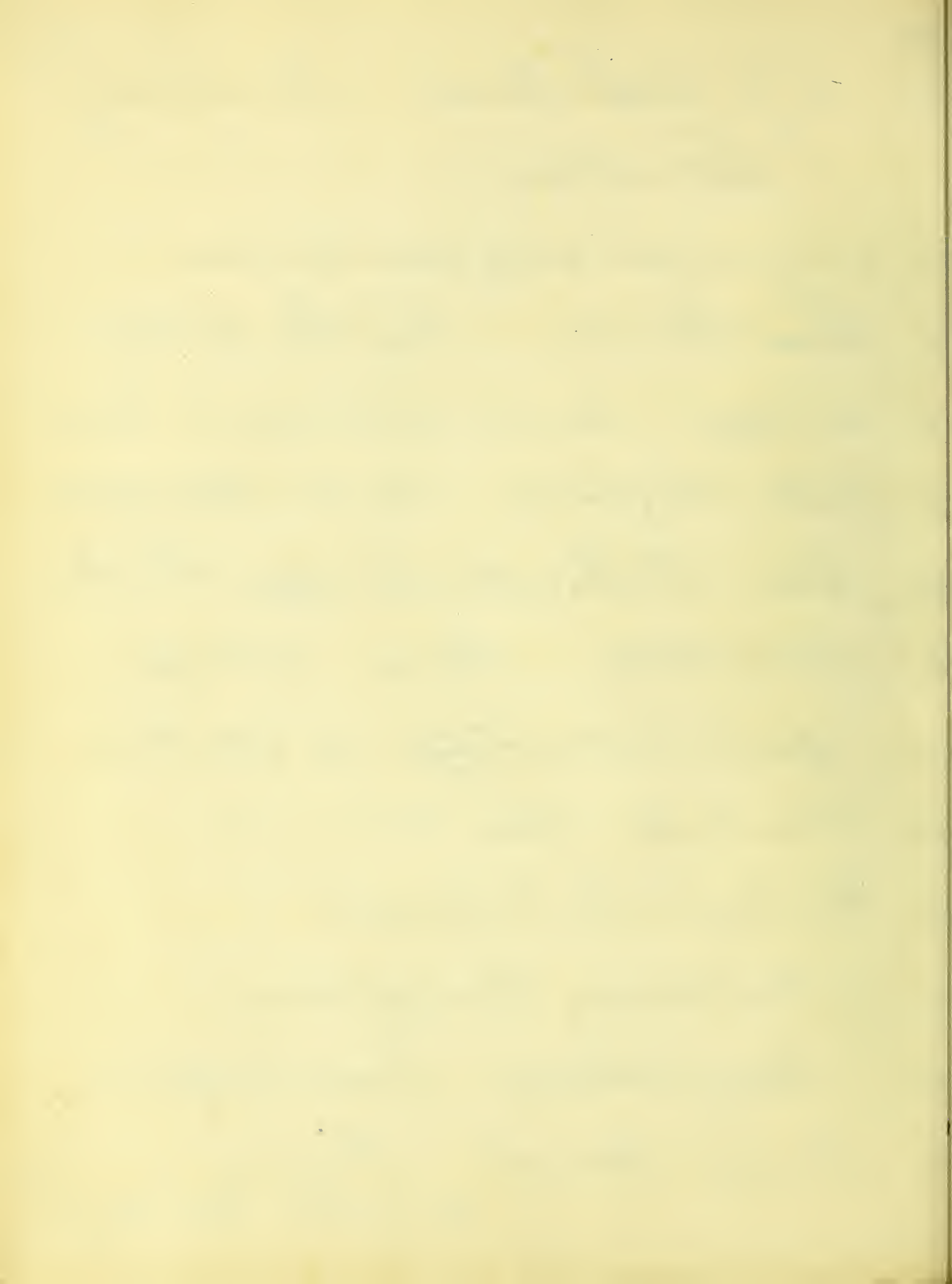
²⁸
328 Robert Barwick Queens' Coll: Cam:



- 12
- W.
330 J. Wood Master of St. John's Cambridge
- 3167 Fred^d. Randall Junr. Cambridge
- 261 Thomas Bentley Bursar. Erdington. Warwick^{sh}.
331. Shul Graham. Queens' College. Cambridge
- 136 Chas. Holmes Trin. Hall
32. Henry John Rose St. John's Cambridge
- 33 Martin Thackeray King's College
- 43 J. D. D. Appenhein Cambridge
- 69 J. M. Robinson Nat. Hist. Chesterton
00. Edward John Atk. Chr. Coll.
- 06 Thomas Dickes. Jes. Coll.
- 5 George Skinner Jes. Coll.
- 4 Joseph Carne. Geology. Penzance
- 5 John Punnett Geology. Clare Hall



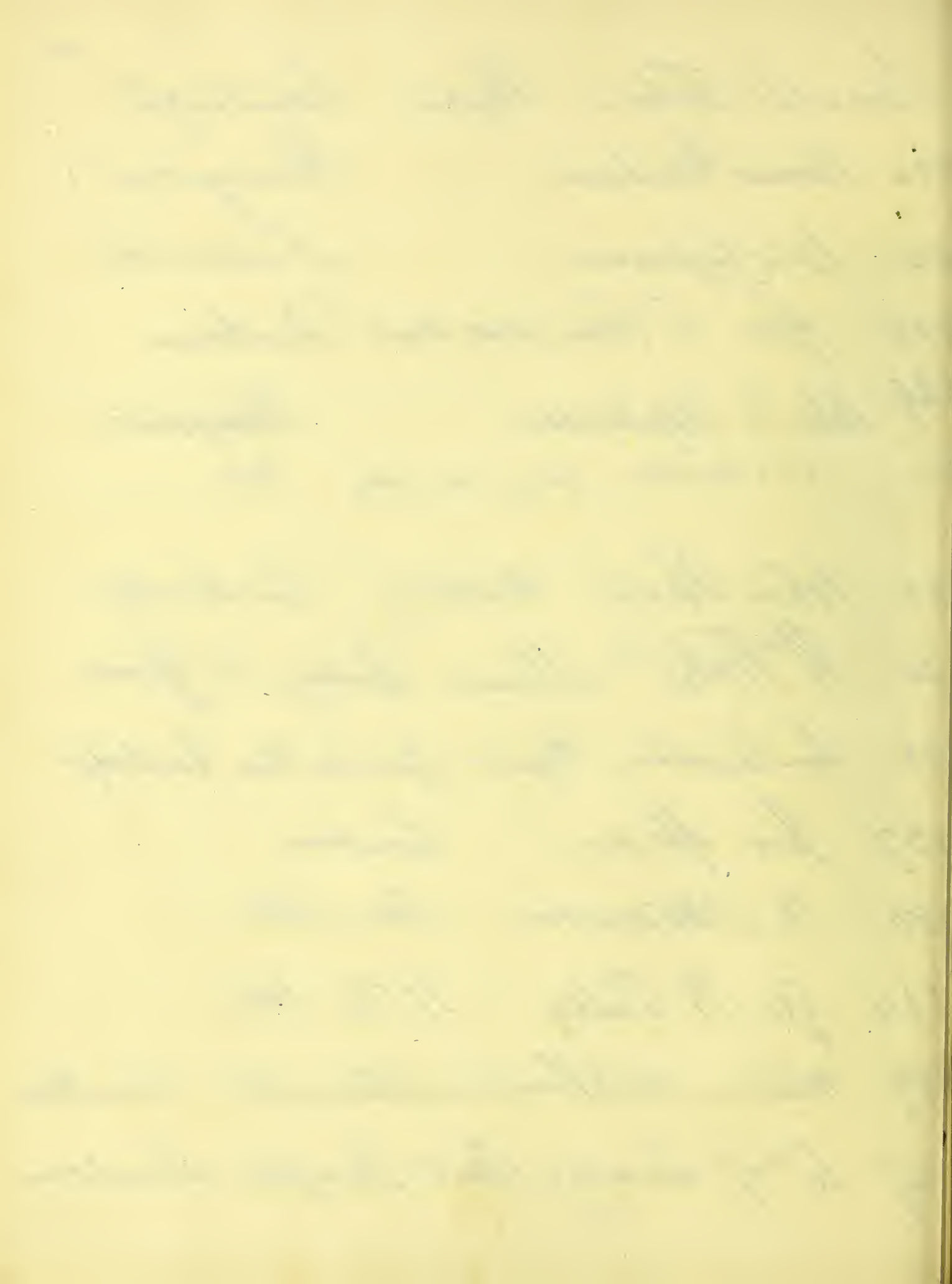
- No. 370 A. J. Sutherland Anatomy
 London
27. G. B. Guenough. Geology Regents Park London
27. Thomas Stevenson Trinity Street, Cambridge.
63. Edw. Ojey. Grammar School, Norwood, Surrey.
72. Eaton Hodgkinson - Physics - Manchester.
- 73 John Hilleott. Geology. London
- 73 Robert Willis - Physics. Cambridge.
- 275 - Arnold E. Huxton 19. Eaton Place
- 376 J. M. Heath 18 Gower Street.
- 377 H. L. Poppel. R. A. Woolwich
205. Chiswick, Trinity College
- 378 Henry M. Bond Cambridge
- 380 Edmund Halswell Physics
 Brompton Park, Wilt.



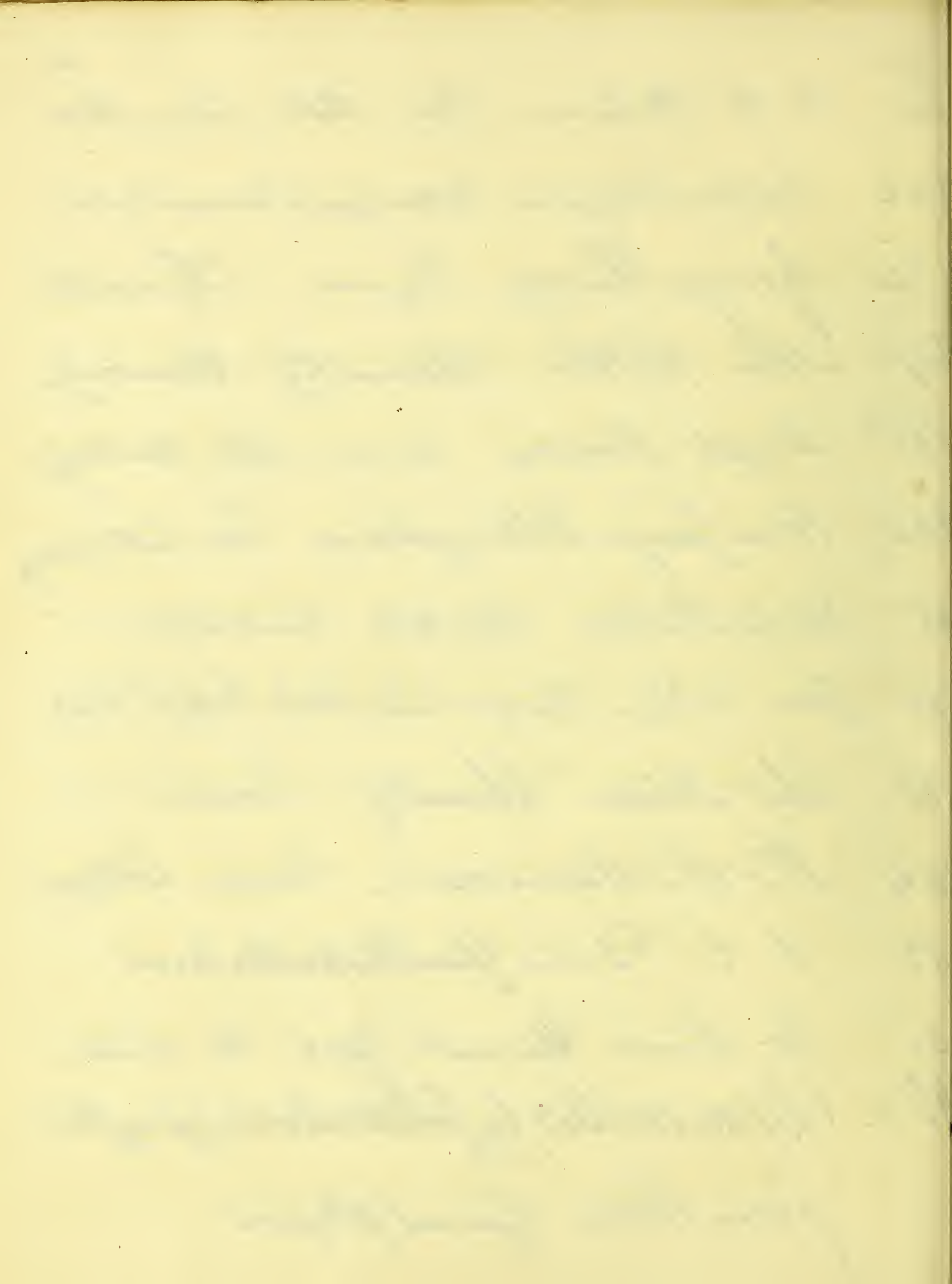
- ¹⁸²
 206 Charles Currier Pembroke College ¹⁸⁴
 459 William Macpherson Trinity College
 440 Chas^r Simron King's College
 461 Rev^d Charles Hotham Trin. Coll.
 464 John James Gilbert Pemb^r Coll. Oxon
 357. Rev. Greaves Townley. Fulbourn Cambs
 466 Tho. Catton St. John's College
 409 Wm Thurtell Temple London
 238 Samuel Thodey Downing Street. Cambridge
 472 Gilbert Ainslie. Pembroke Coll. Lodge
 474 William Yarrell Nat. Hist.
 Ryder street St. James's London
 219 Tho. Sinton Fotheringhay
 480 John Graham Christ's Lodge Cambridge



- 15
- James D. Forbes. Physics. Edinburgh
- 224 Francis Garden Glasgow.
- 225 B. Chapman Norwich
- 398 Geo. T. Pon, Nat. Hist. Durham
24. Mr. L. Hopkinson Stamford
- 30 A. J. d'Abbadie Geology & Geography Paris
- 32 John Oker. Anatomy Cambridge
- 34 J. W. B. Shurmer Rectory A. Essex
- 36 Sam. Carnshaw, Physics, Gonville Place, Cambridge.
- 37 Jas. Spear London
- 80 R. Stevenson Trin Coll
- 204 Geo. B. Pally St. Pet. Coll.
- 89 William Webb Vice Chancellor Clare Hall
- 47 W. G. Lumley Mid. Temple London



- 16
- 49 W. H. Moineux Nat. Hist. Clare Hall
 62 Godfrey Higgins Skellow Grange Doncaster Yorkshire
 34 George Harvey, Physics, Plymouth.
 67 John Grafton Chemistry. Cambridge
 65 Joseph Brown Queens Coll Cambridge
 64 John George Billingham Trin. Coll. Cambridge
 5 John Rich Rushton, Clare Hall, Cambridge.
 50 John Arthur Power Clare Hall Natur^l Hist
 65 Chas. Melville Chemistry London
 4 W. H. Hanson. Caius College
 3 J. C. Dale Glanville Wootton Dorset
 1 Wm Vernon Harcourt York Ch. Section
 8 De Monville by Johnson Books. Sydney Street
 from Paris General Physics



W.
493. Edward Lowgood J. Reeds Remingtons line

492 N. J. Boyce, Math: & Gen: Physic, Newport

480 William F. Ware Daring College Lodge

497 Edward North Benton Trin Coll.

496 Henry Howarth St-John's college Cambridge

37 Rowland Hill Mathematics - Bowe castle
Middlebury

498 A. E. Henshaw - Trin. Coll. Camb.

500 P. M. Roget M.D. London

502 C. H. Bingham . Cairns. Coll.

119 John Gibson Sidney College

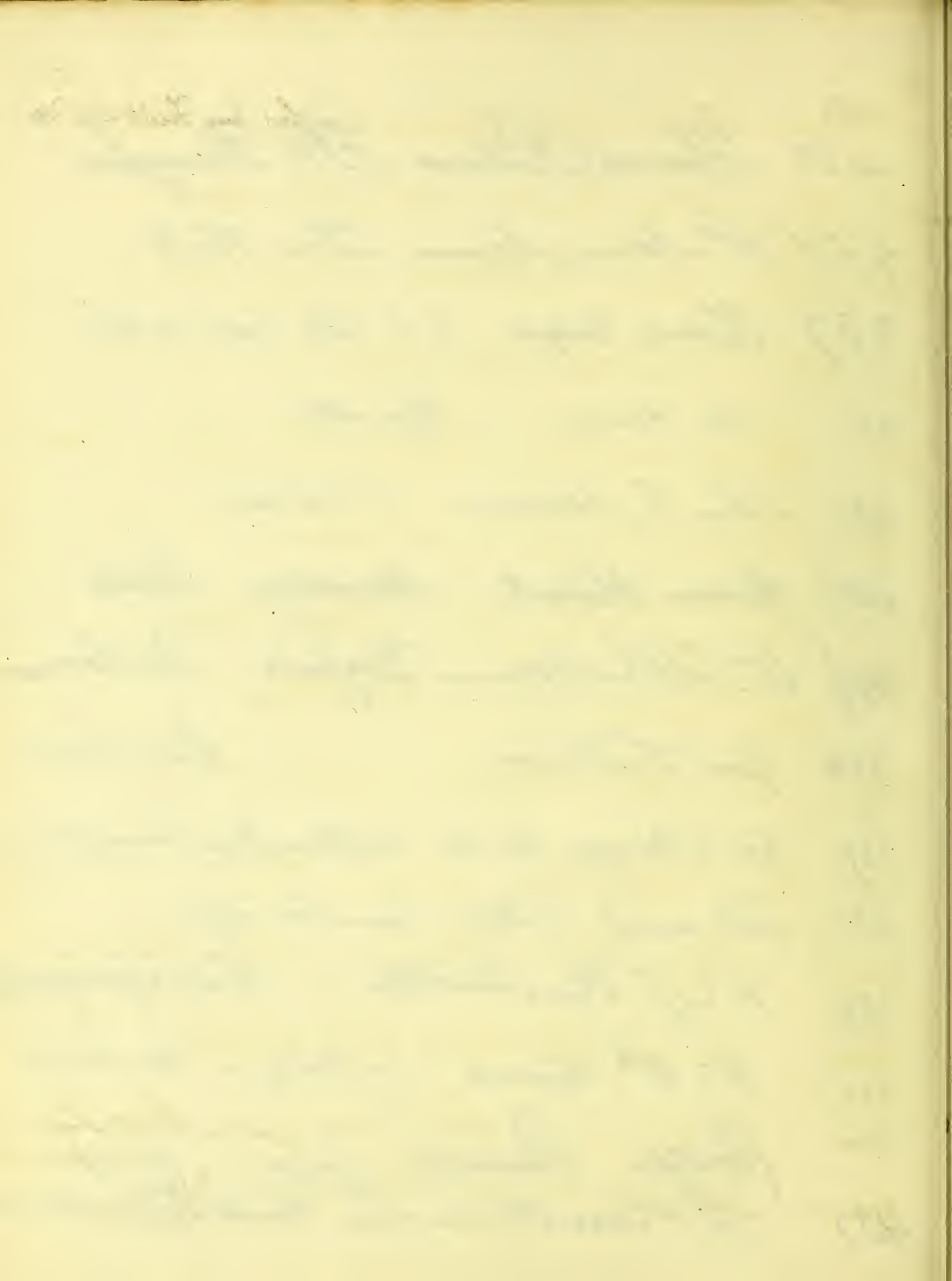
503 Robt. Lemay Page Eman: Coll:

505. *Edw. W. Lawrence* Trin. Coll. Camb.

506 Ed. 2. Dent 84 Strand. London

263 William West, Sec. Phil. Soc. Leeds (Chemistry)

- ¹⁸
 422 Thomas Rickman F.R.S. Birmingham
 423 W^m Mopson Mann Clare Hall.
 337 Thomas Doyer C. C. Coll. Cambridge
 40 Jos. House Leicester
 425 John G. Macvicar 1st Andrew
 426 Thomas Whitwell Meteorology London
 399 W. Wharton Dryburn Durham
 428 Geo Salmon Cambridge
 427 Geo B Jernyns Nat Hist. Suffolk Prior. Cambridge
 431 Edward Titch Cambridge
 159 F. L. Pemberton - Torrington
 325 - W^m W^m Hayward - geology - Cambridge
 158 Christopher Pemberton - geology Cambridge
 435 John Wilson M.D. London



19

^{No}
13. William Clift College of Surgeons Lincoln's Inn Fields London.

367. Henry Percy Gordon Lincoln's Inn

360 James Drake Kirksthorpe Wakefield

327. John M. Kemble. Trin. Coll.

348 Thomas Allan Geology Univ. Coll. Edinb.

369 Charles Fellows London

352 Ch^s. Lestougeon Trin Coll.

371 J^d Russell Whitlesea

347 Hⁿ H. Goodhaling London

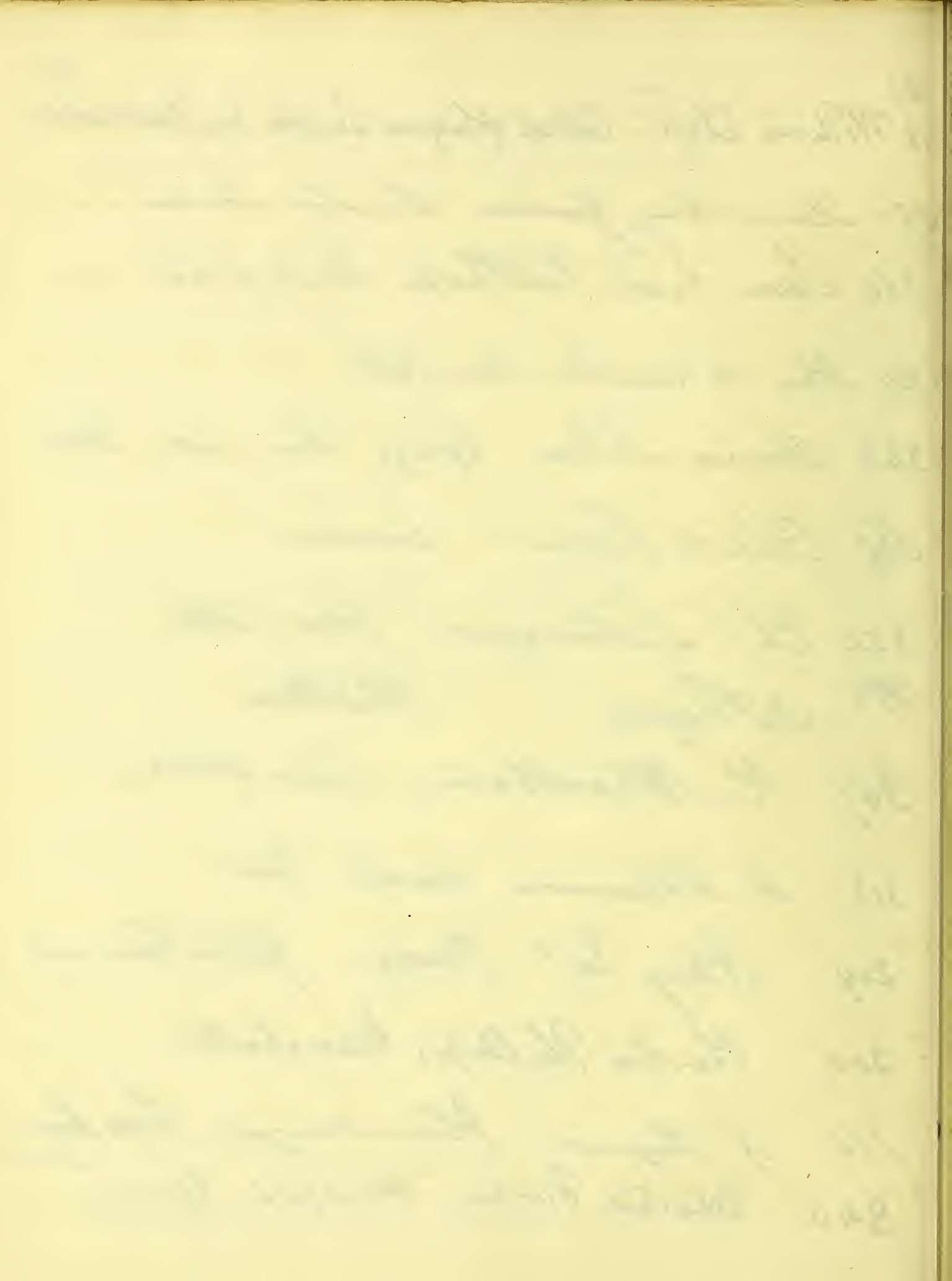
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249 Harry Ed^d Preston Gloucester Terrace

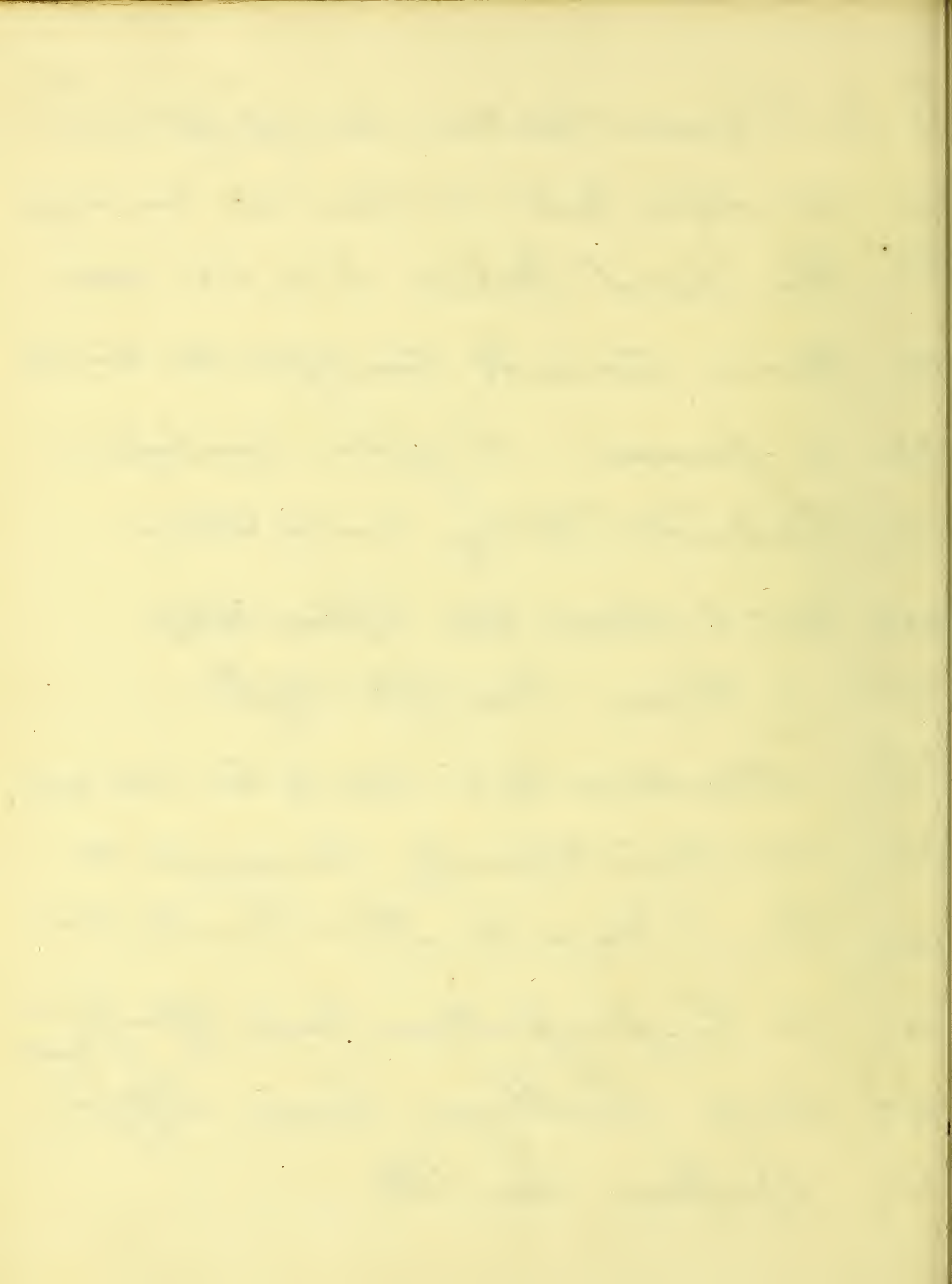
300 Charles Phillips Manchester

125 J. Rogers Hardinge Bank House
Jewon

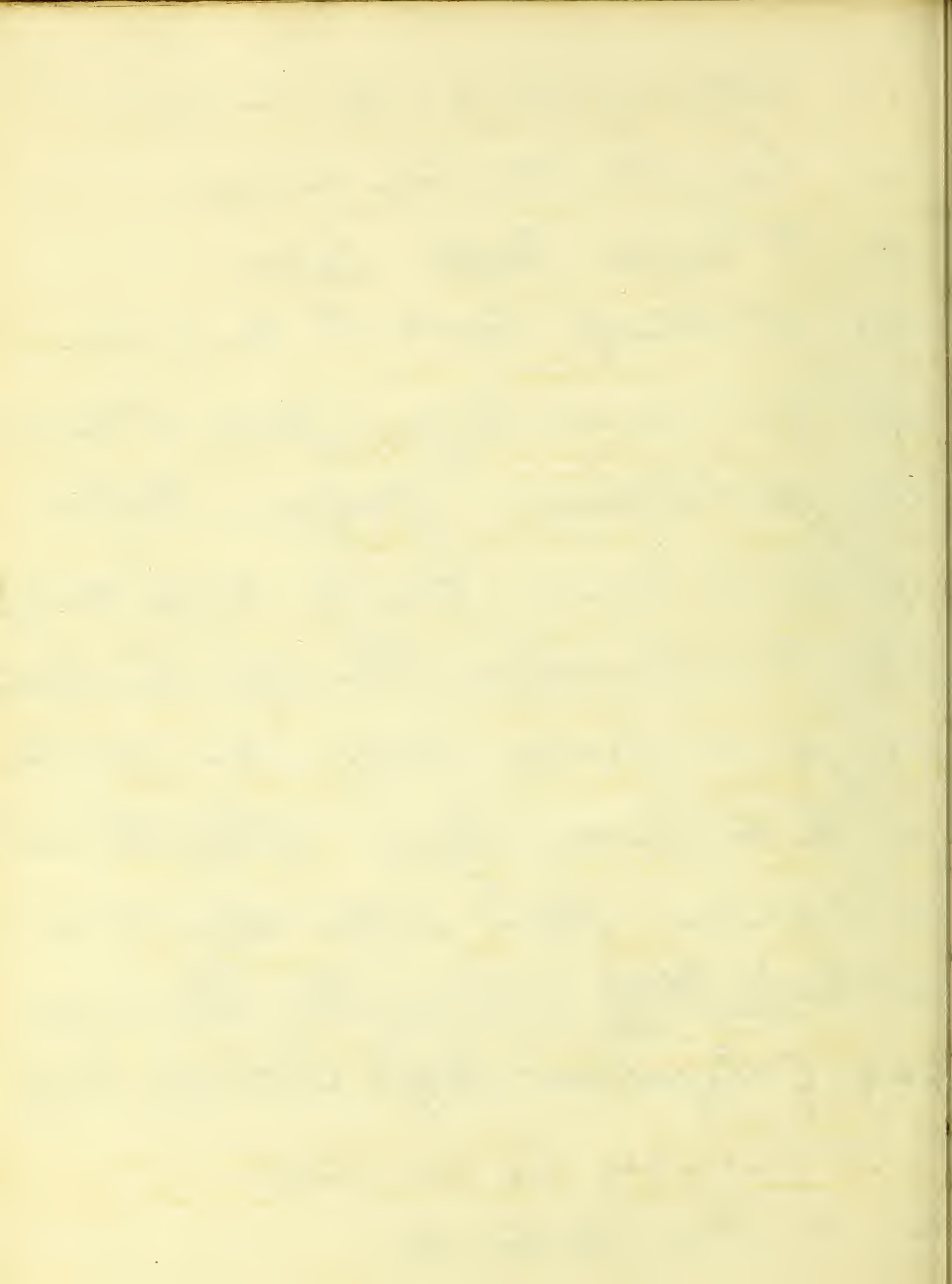
340. Edward Foster, Woodford Green



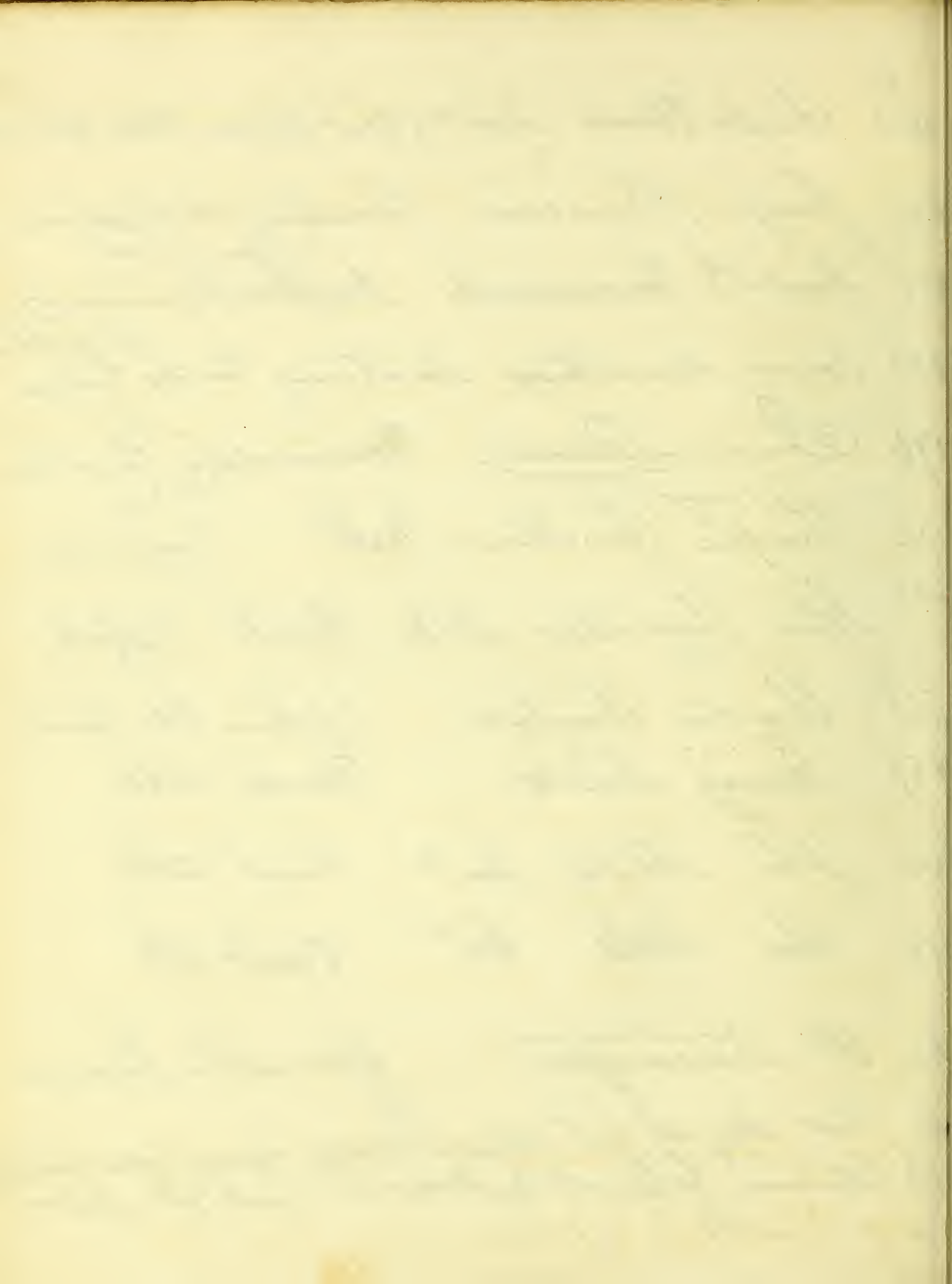
- 20
 26. W. L. P. Garmons Nat. Hist. Sid. Sups. Coll. Camb.
 282. Robt. Mitford Taylor. S. Col. Christ Coll. Cambridge
 385. Wm Edward Jackson. M.A. B.A. Oxon.
 282 Hermann Bernard, Trumpington Street Cambridge
 298 C. Gervas St. John Cambridge
 295 Underwood, Geology Trinity College
 264 Rev^d R. Jeffreys B.D. St. Johns College
 291 - C. Harris. Univ Coll: Oxford. —
 394 A Martineau M.A. Fellow of Trin Coll Cambridge
 395 Thos. Atwood Walmisley. Trumpington St.
 402 Thos. B. Warwick M.D. Manchester.
 403 Jas: Vaughan Jackson Empire Cosmoline
 406 Charles Babbage Lucasian Professor
 288 H. Goulburn Trin. Coll.



- 21
- 220 J^W Gowing Trinity College Cambridge
408. T. Spring Rice. Trinity College Cambridge
- 412 W. Empson. Temple London
- 413 R^d Newby Trinity St Cambridge
- 414 Cha^r Newby Surgeon Green St Cambridge
- 276 John Waterhouse Geology. Halifax
299. J^r. Lee Edwards - Chemistry - Pys. Vert. Halifax
- 418 V. F. Howenden Chemistry Trin. Coll. Camb.
339. Jos. V. Barnes. Geology. Trin. Coll. Camb.
- 421 J^r Fred. Isaacson Physics. St. John's Coll. Camb.
- 111 J. H. Evans Physics St. John's College Camb.
- 420 Mind Wood 22 Queen Str. Edinburgh
- 424 G. Argyhart M.D. Coll. Cambridge
- 21 J. D. Murray Ex Coll. Camb.
- 424 John Wilson Lincoln's Inn



- 22
- 448 Charles Hebert Math^s & Gen^l Physics Trin. Coll. Cam^{bridge}
- 449 George Burrows Anatomy & Medicine
Cam^{bridge} Coll.
- 450 Rich^d E. Townsend Doctor of Divinity
Dublin
- 452 James Macartney Anatomy Trinity College
- 476 Eubian Reine Mineralogy Cambridge
- 492 Temple Chevallier Math^s Cambridge
- 455 John Chevallier M.D. Aspell Suffolk
- 456 Charles Bontell 1st John's Hall. Camb.
- 457 Henry Alett Pemb. Coll.
- 450 John Mills Jun^r Pemb Coll
- 458 John Mills Sen^r Pemb Coll
- 460 W. Warington Gloucester Terrace
- 462 Thos Meynell Jun^r Natural History, Tryerage Farm Yorksh^{ire}
- 463 Ann Gibbert Pharmaceutical Pemb. Coll. Baber



N^o.
438. J. Brown Trinity College Cambridge 23

439. W. Pound J. J. John's Coll. Cam.

39 J. Hopkins Mathematics Fitzwilliam Street
Cam.

260. L. Woodward. Geology. Trin. Coll.

441 J. R. Berke Mathematics Trin. Coll.

442 H. Cotesworth Mathematics Pet Coll

443 R. N. Grasswell, Herne Hill, Surrey

310 W. P. Holmes Mayd. Coll.

444. H. Hemington Harris Sidney St. Coll.

445. Henry Drury - Cairns Coll.

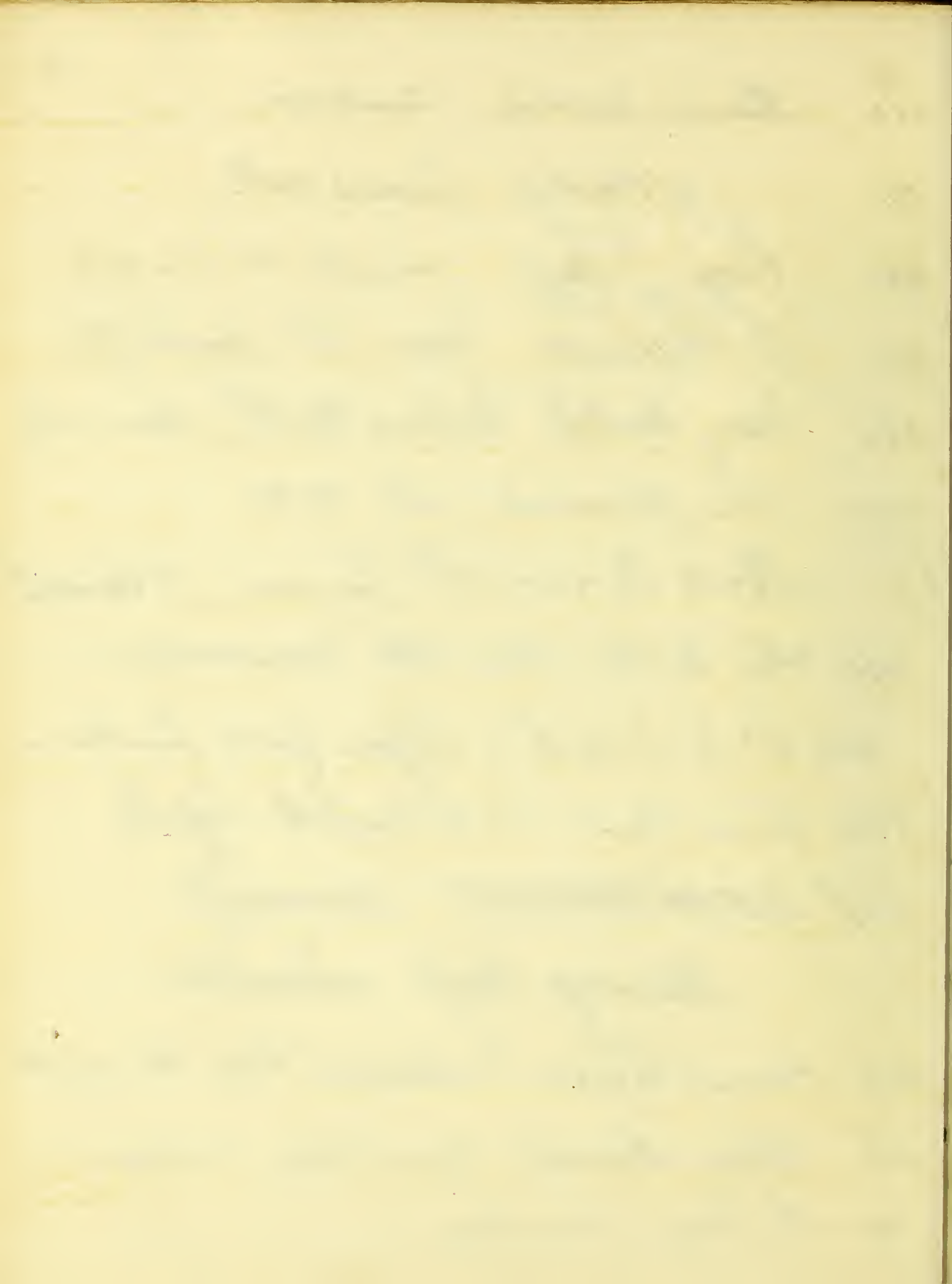
446 John Hailstone Trinity College

123. S. Hailstone Bradford Yorkshire

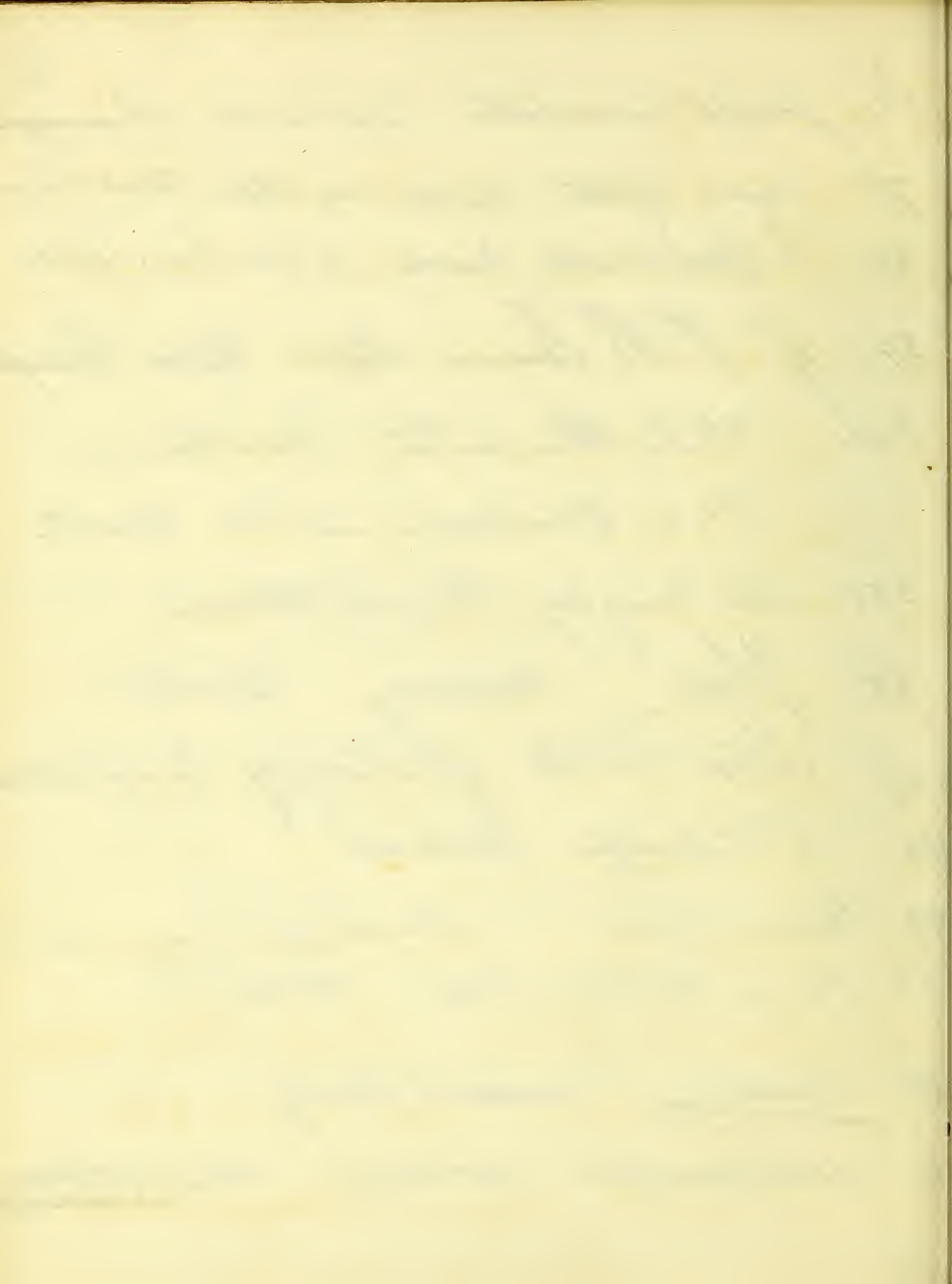
110 James Edwards Regent St. Cambridge

447 Robert Robt of Wadensburg Trin Coll

- 152 ^{N:} Thomas Mordaunt, Cambridge.
 161 G. Phillips Queen's Coll.
 489 George J. Swift Market St. Cambridge.
 491 W F Wilkinson Caput Coll Cambridge
 454 Henry Hasted Heyland Hall n: Barnsley.
 494 John Gildersdale, Cath: Hall.
 63. Alfred Bosworth Surgeon. St. Andrew's
 499 John Norton Trin: Coll: Cambridge
 501 W^m H. Crook 1 Lipson Grove London
 504 Thomas Clarke East Bergholt Suffolk
 508 ~~Francis WHELM~~ Chemistry
 Charing Cross London
 509 Edward Tarrant 3 Addison Road, Kensington
 516. William Mandell, Queen's College, Cambridge
 392 M. Davy Cairn Lodge



- ^{25.}
^{75.}
 361 Joseph Crompton Edgbaston Birmingham
 75 James Gates. Geology. 49 Upper Bedford Place.
 28 J. Guillemaud Chemistry 27. Gower Street. London
 343 G. P. B. James Physics Inverness Ross-shire
 344 - A. Sutherland Anatomy -
 121. Parliament St. West
 357 Rob Bingley Royal Mint
 98 Hope Anatomy Cambridge
 447 John Vetch Geology Charter House
 280 W Metcalfe Foulmire
 97 Thomas Coe Maid Lane way - Cam A
 56 Henry Raikes B.A. - Chester -
 46 Goudier observatoire de Bruxelles
 68 Alaa Birmingham Nat. History Head on the Green
 in Kewbridge



479. Alexander Cope, Paris.

478 Thos. G. Clemson Prof. Chemistry - Paris -

473 Robert Addams, Physics. Kensington.

514 W. B. Morris, Palgrave Suffolk

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144 Wm. Lonsdale Geology London

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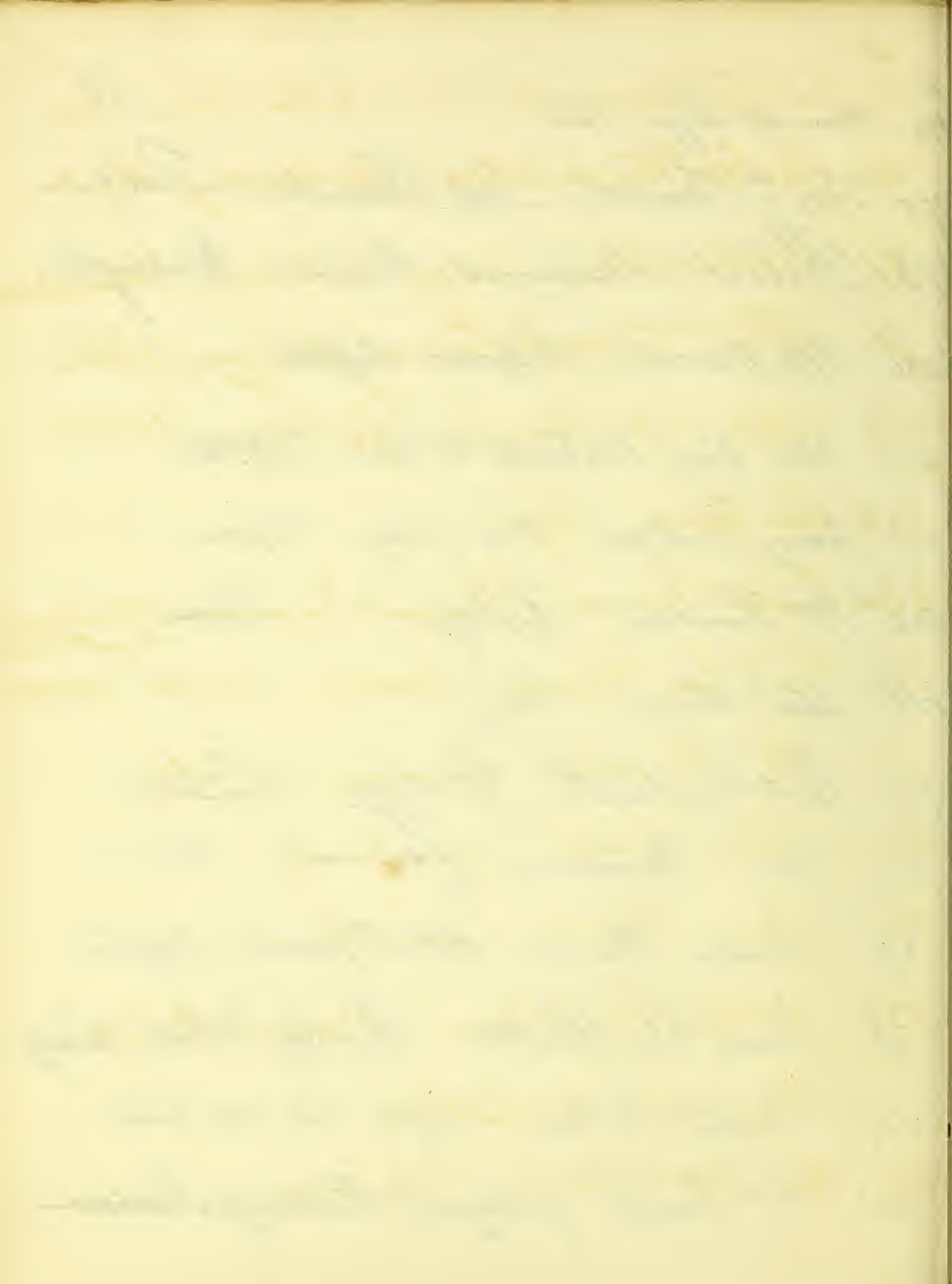
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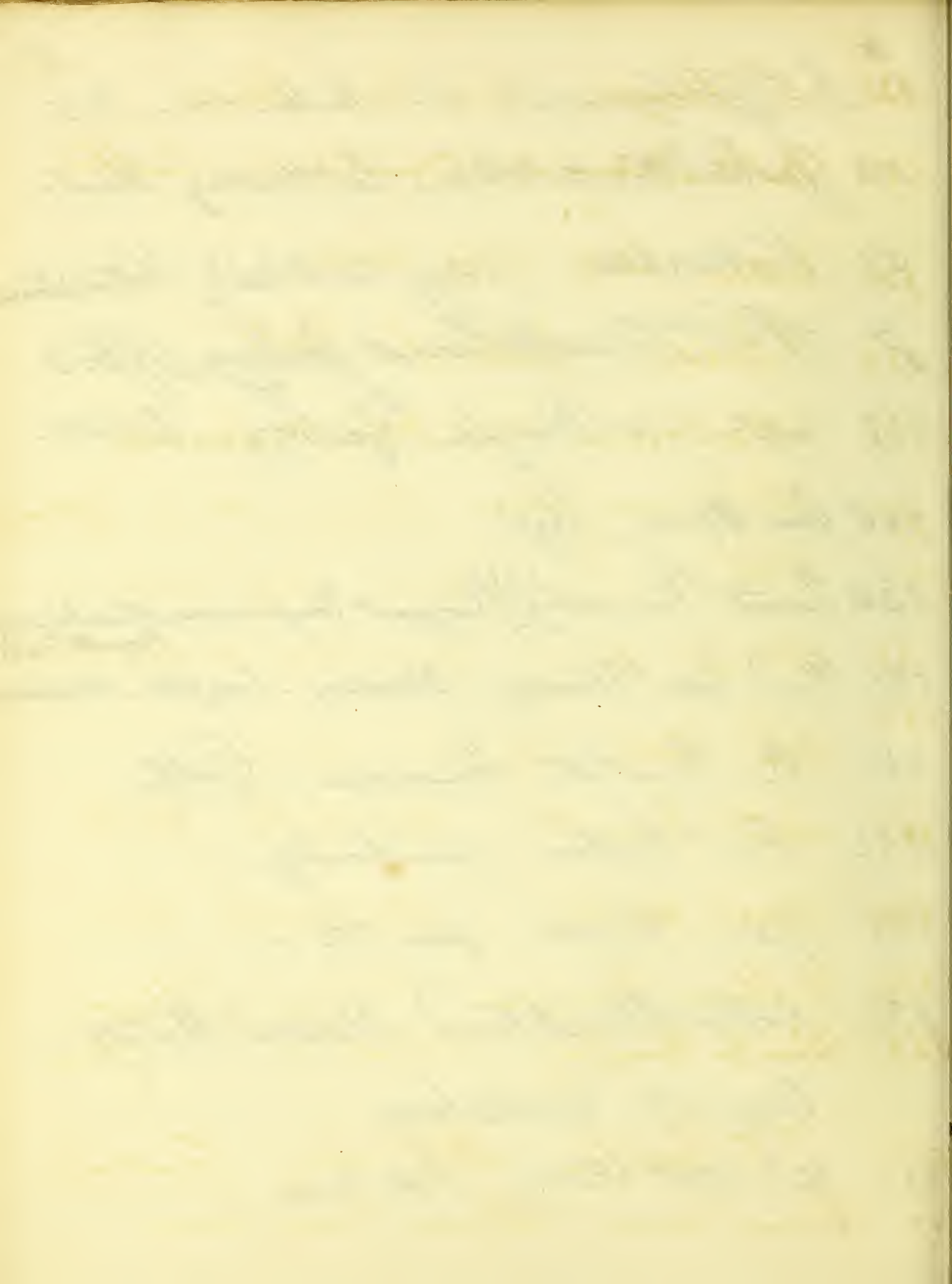
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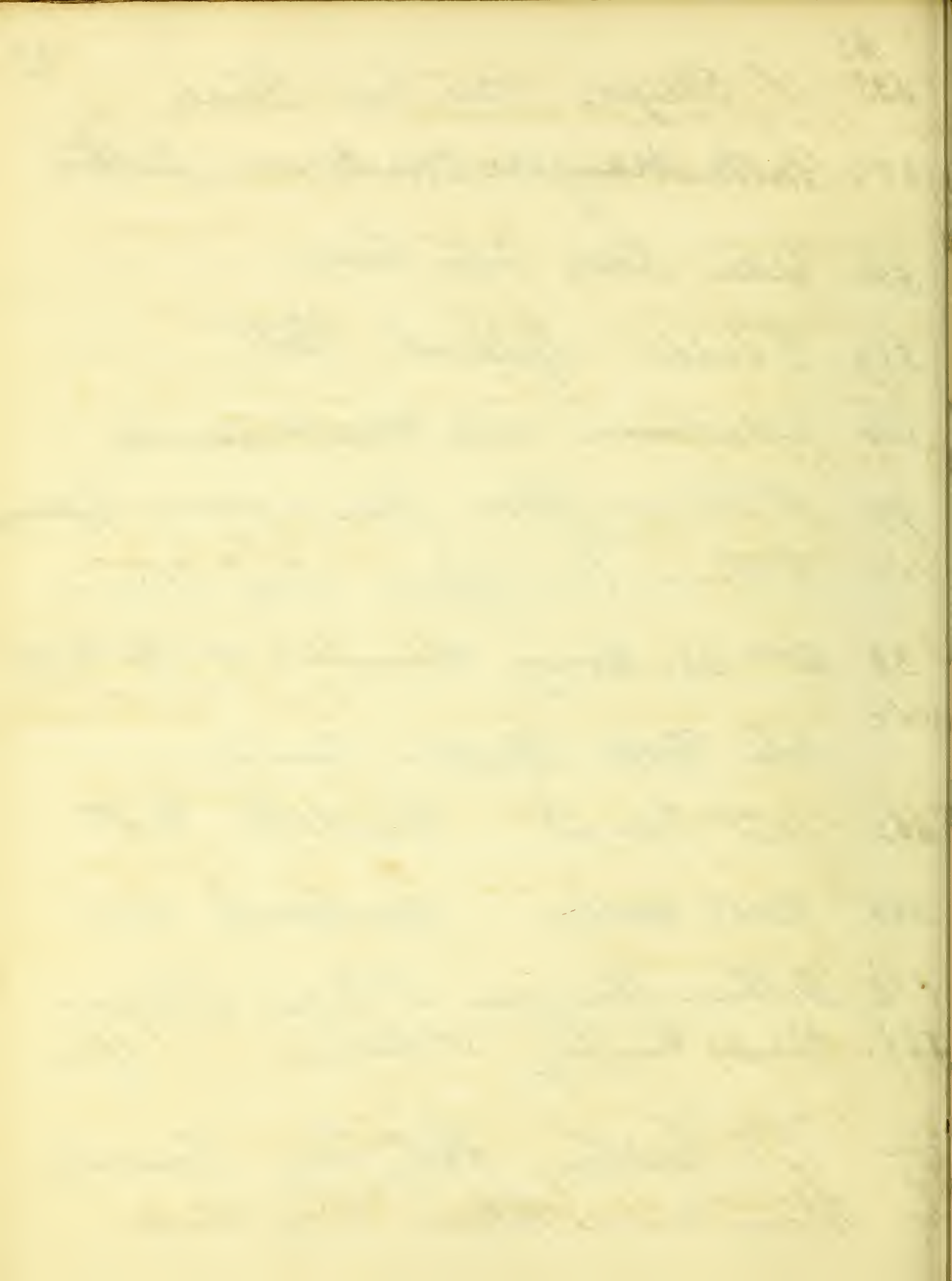
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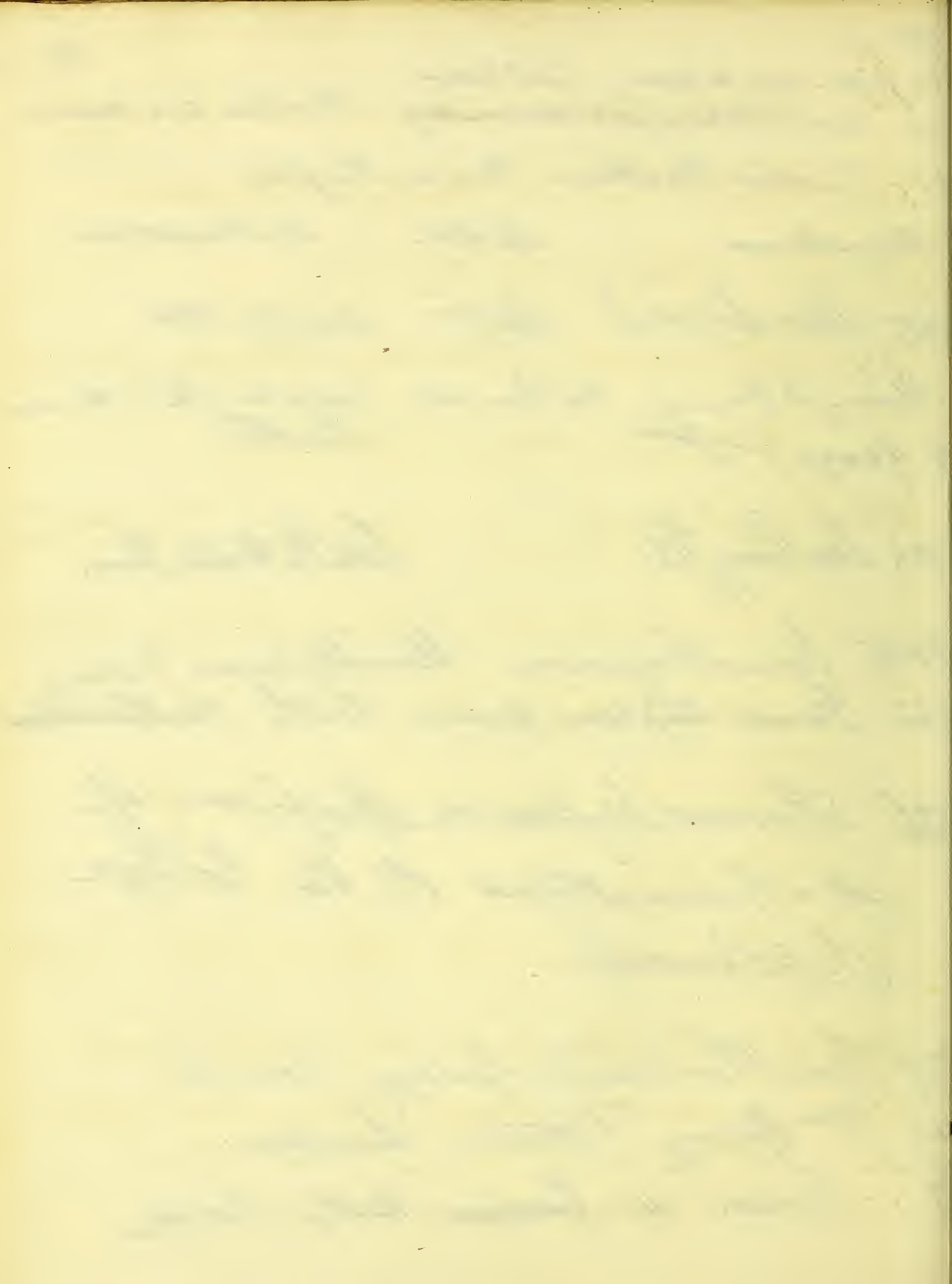
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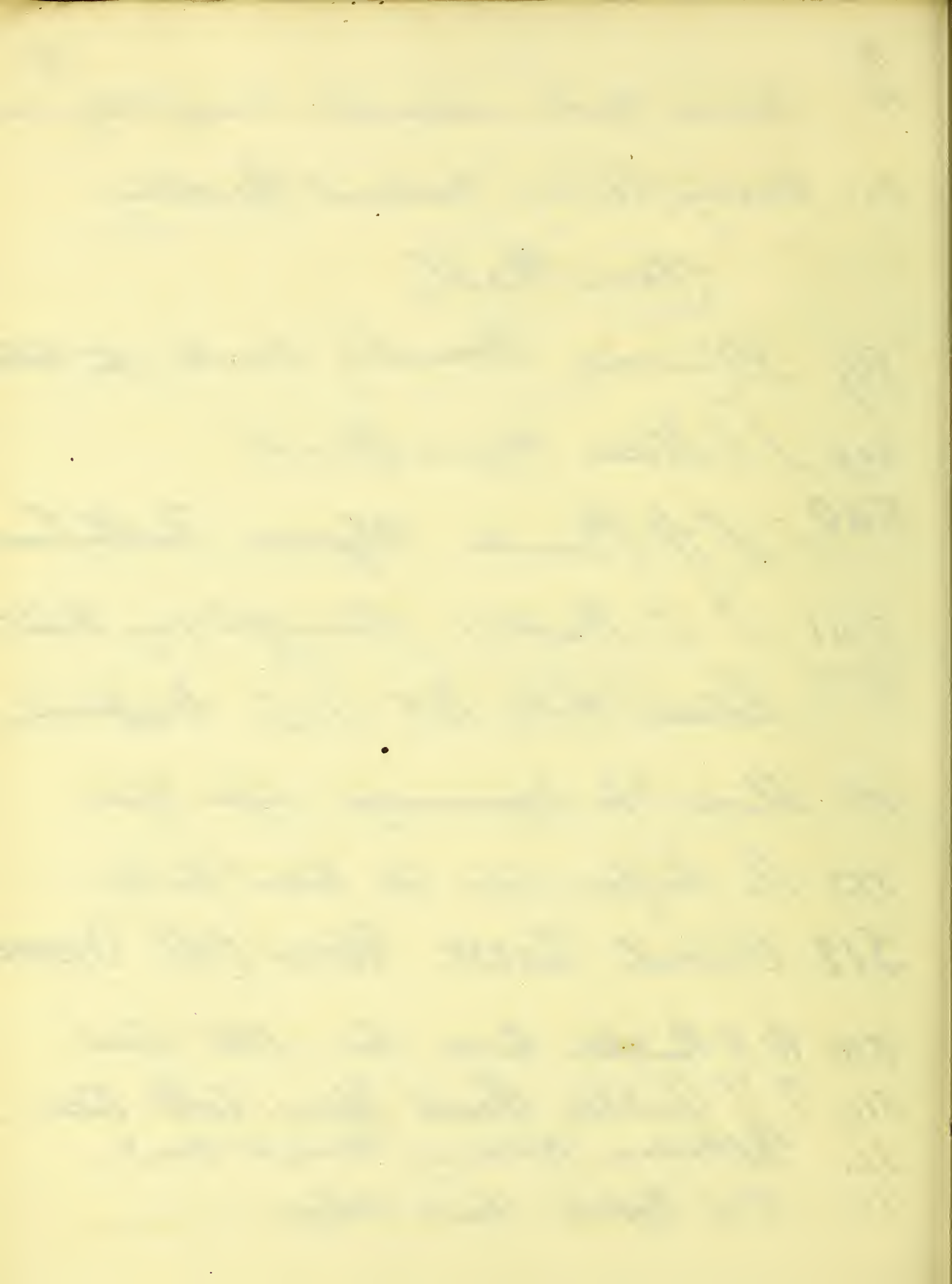
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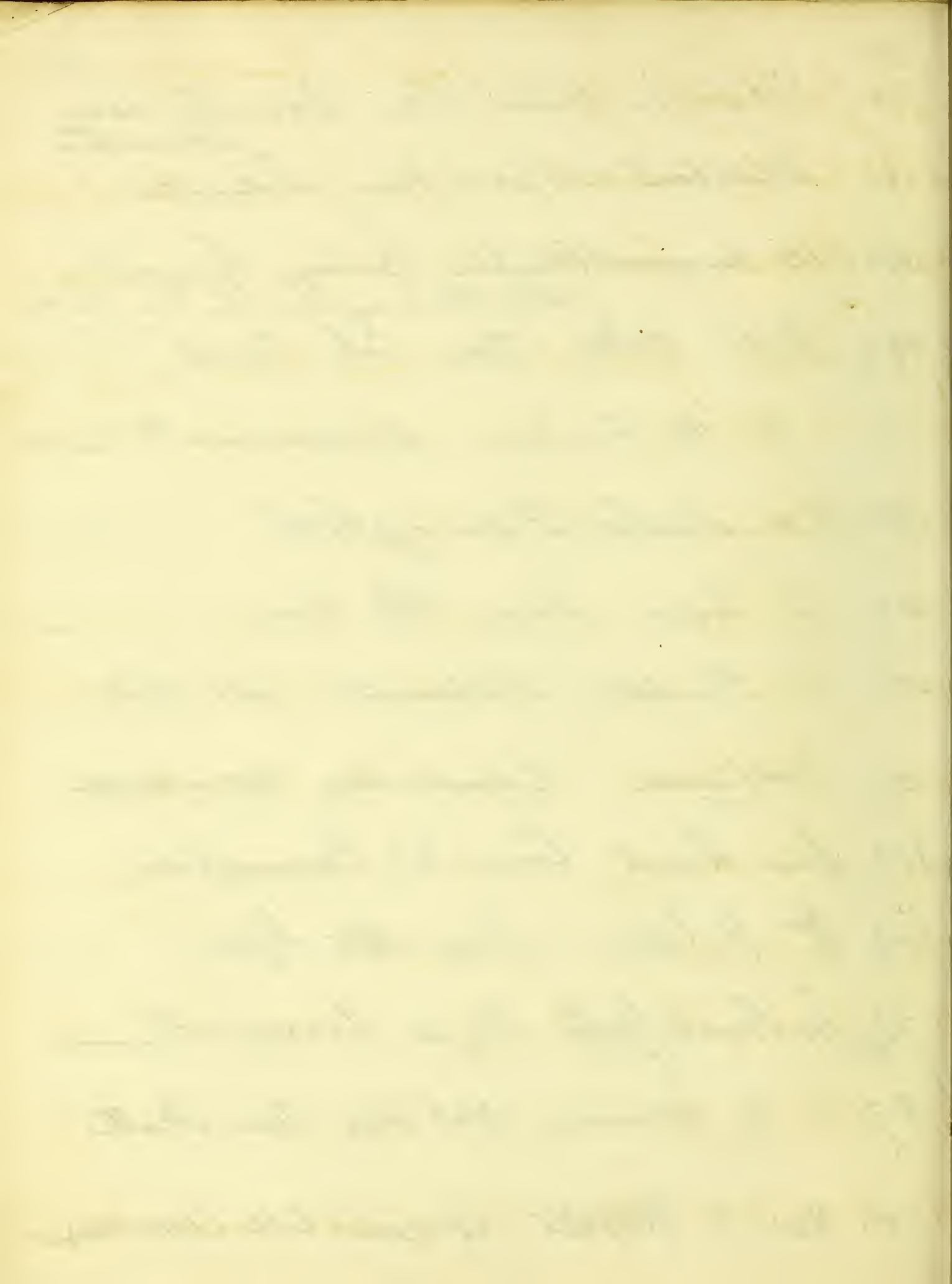
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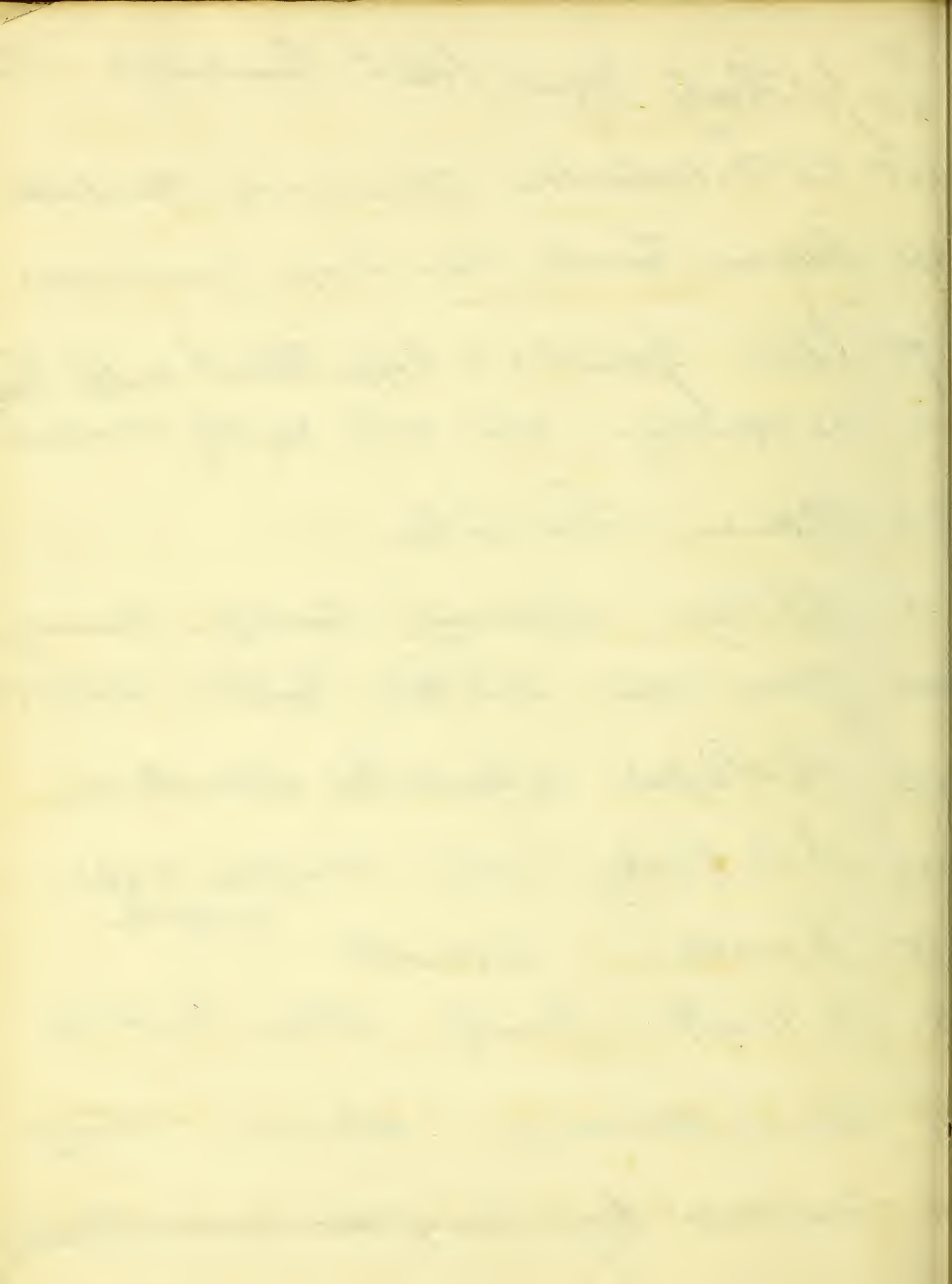
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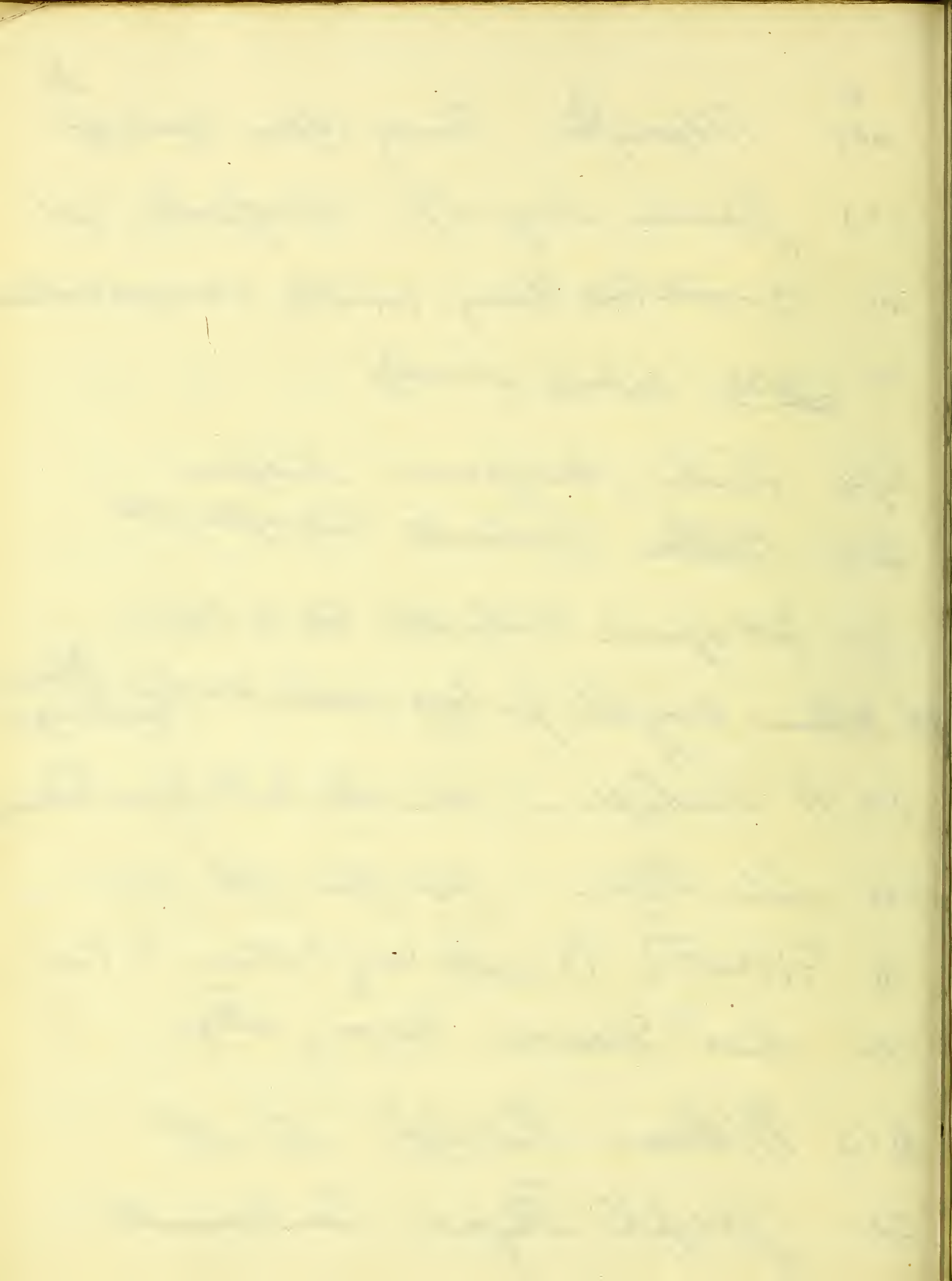
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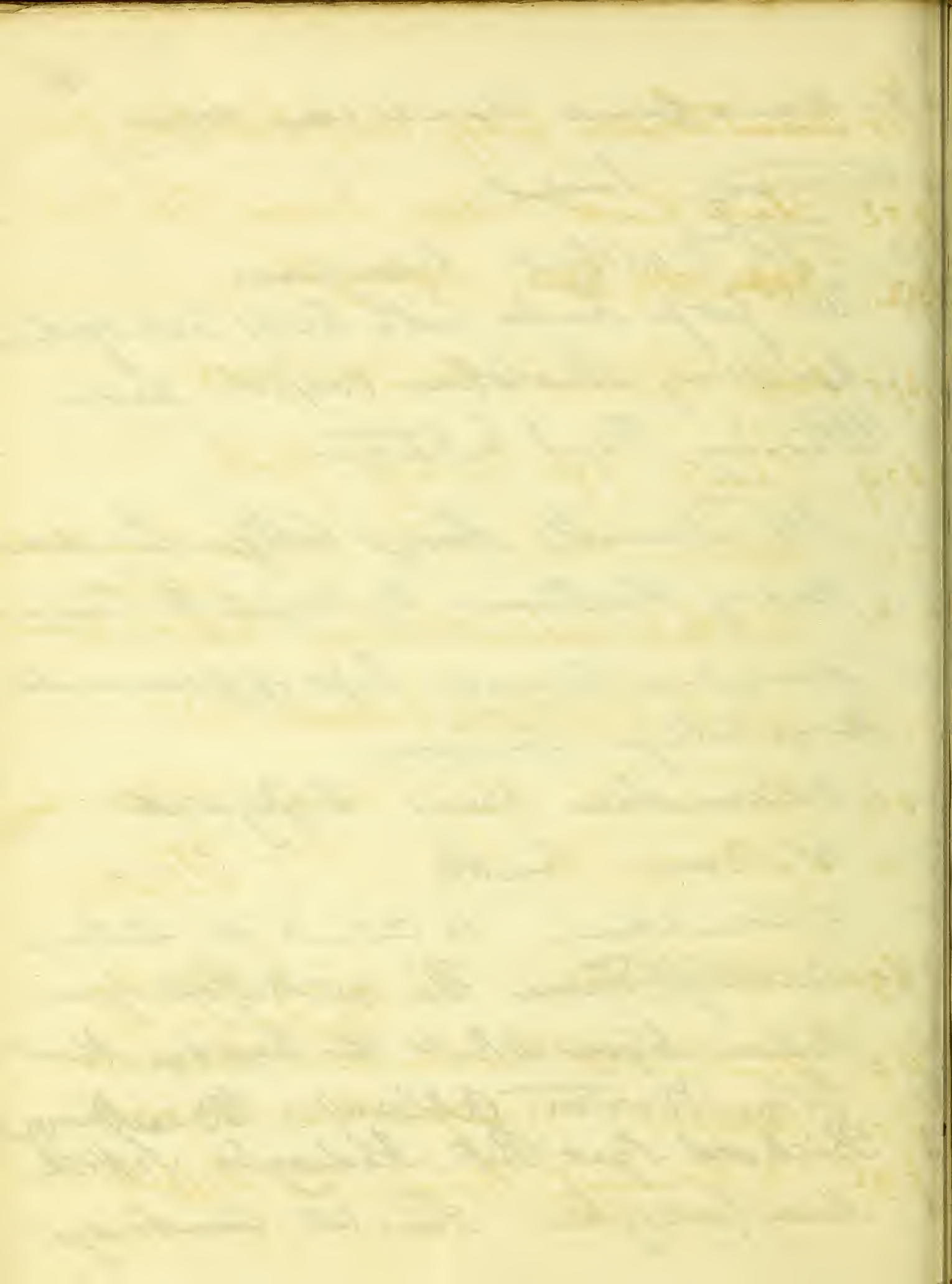
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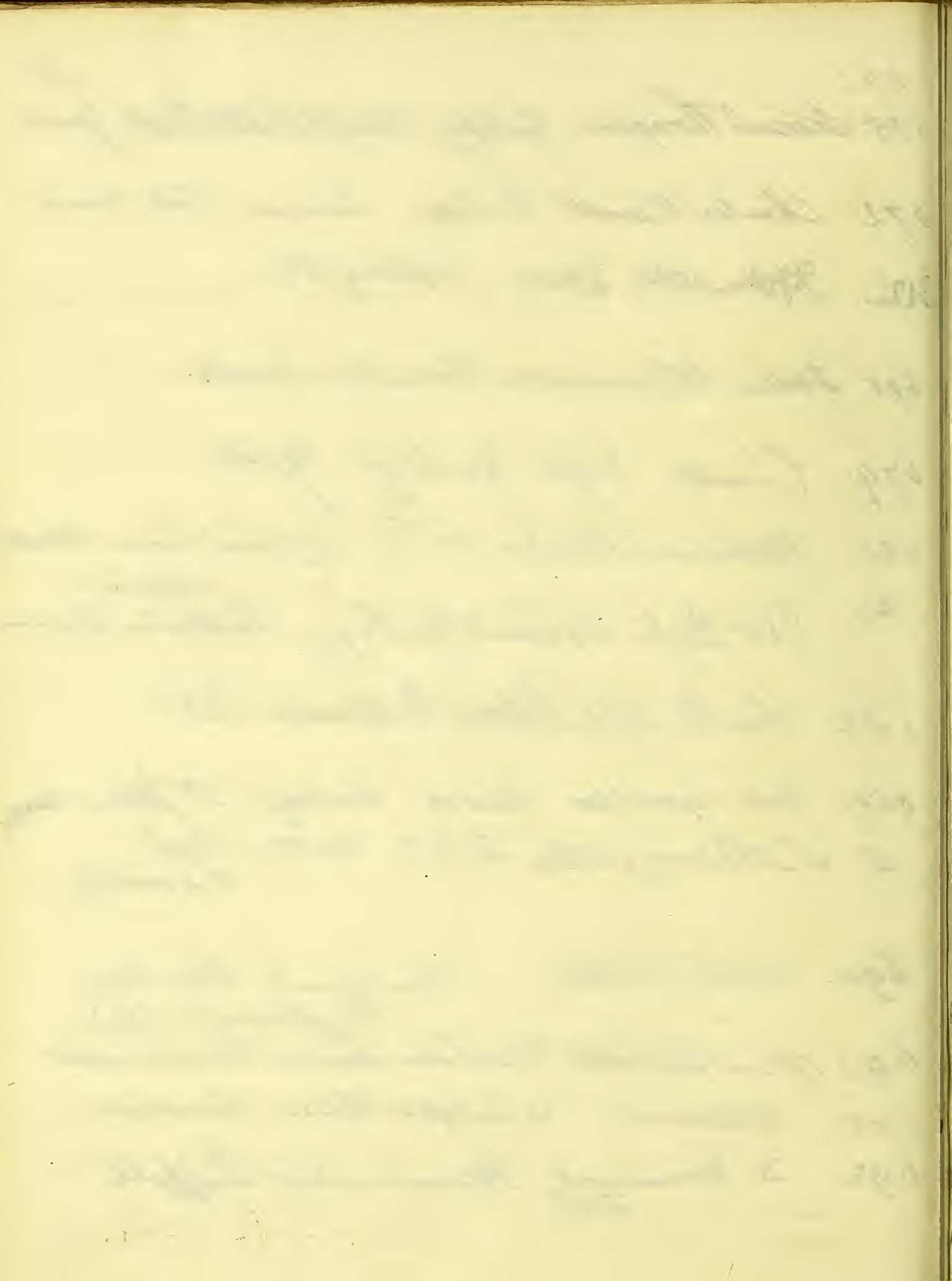
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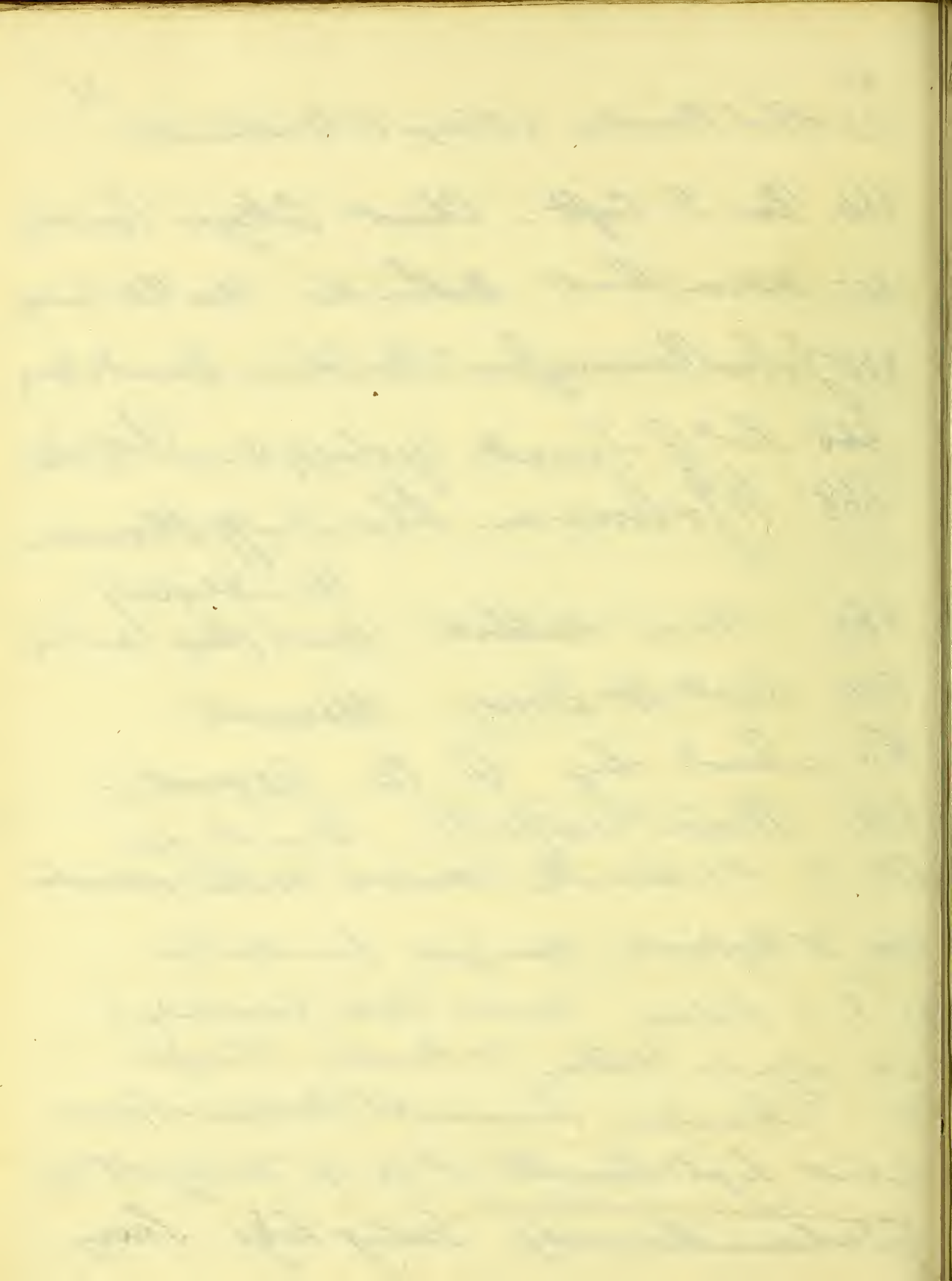
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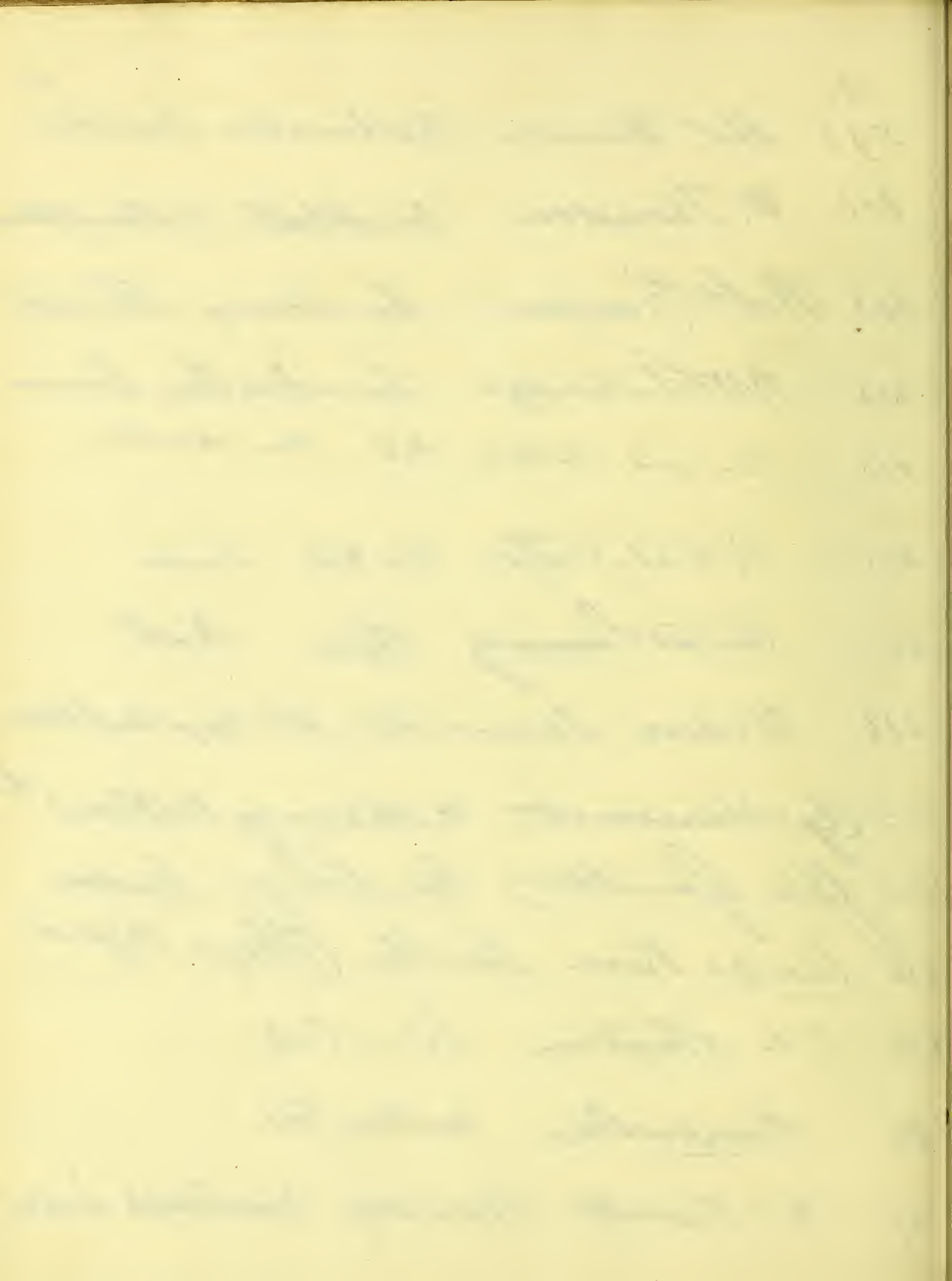
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Thomas Bailey, Physics Tavistock Place

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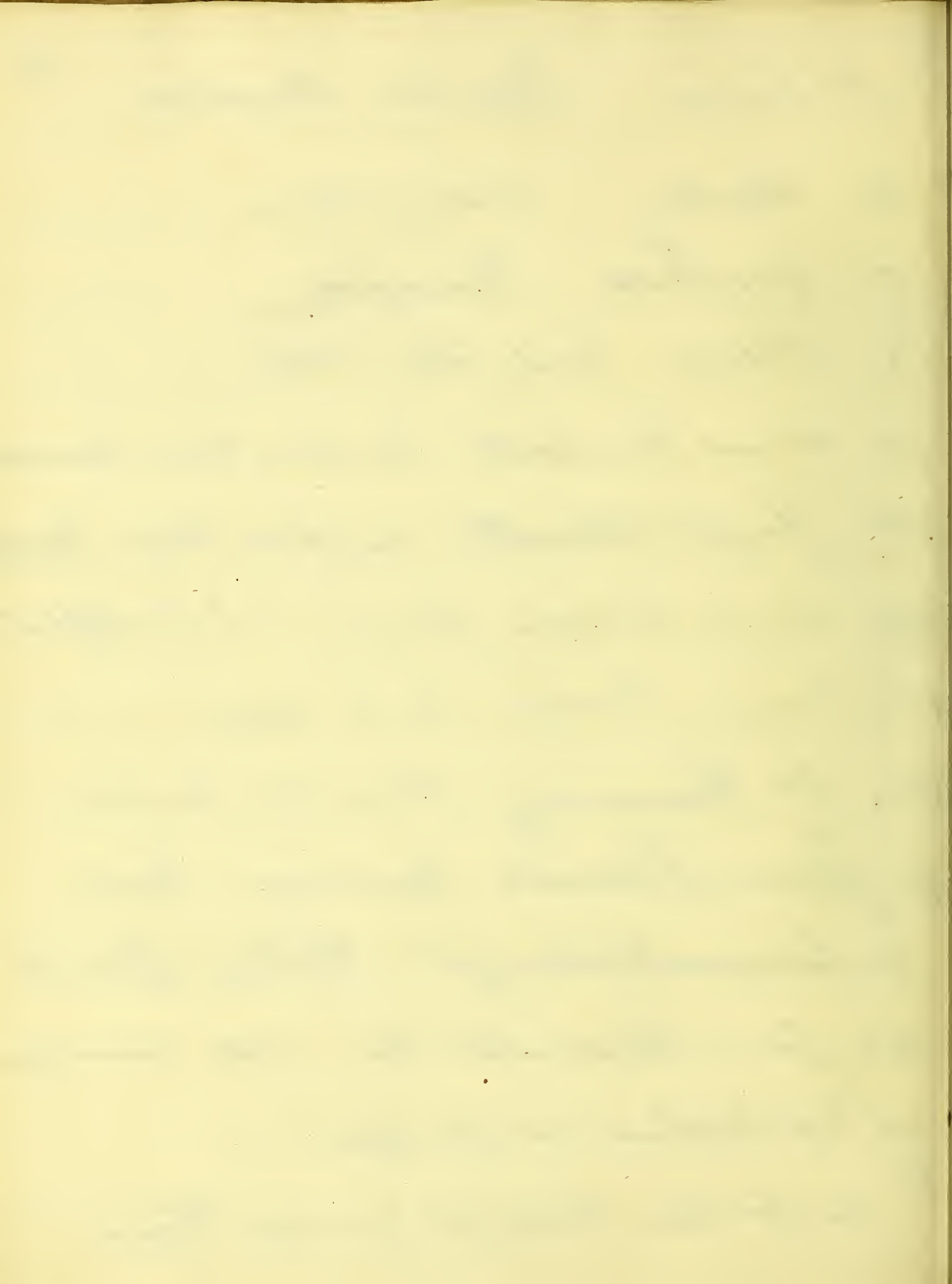
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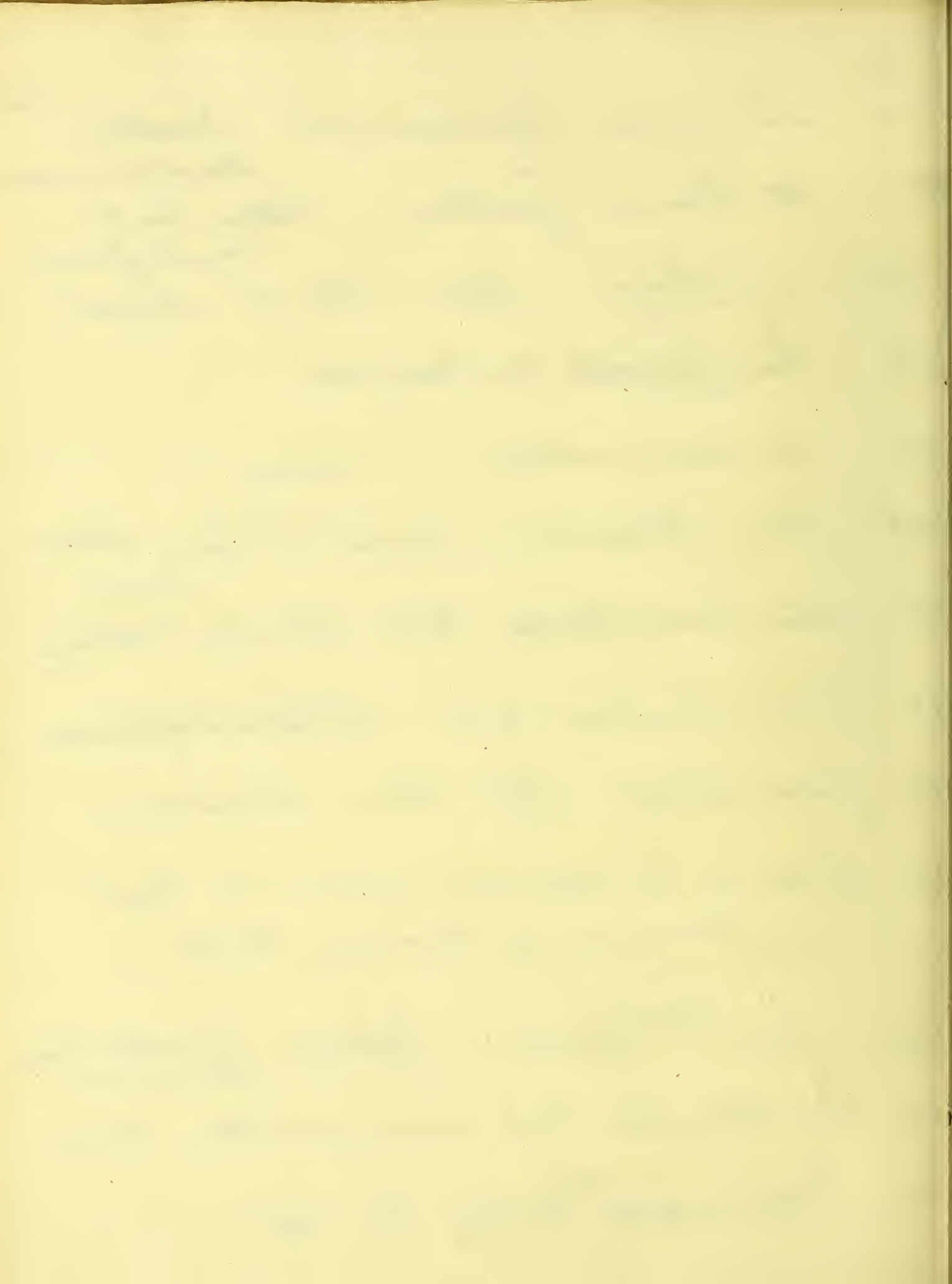
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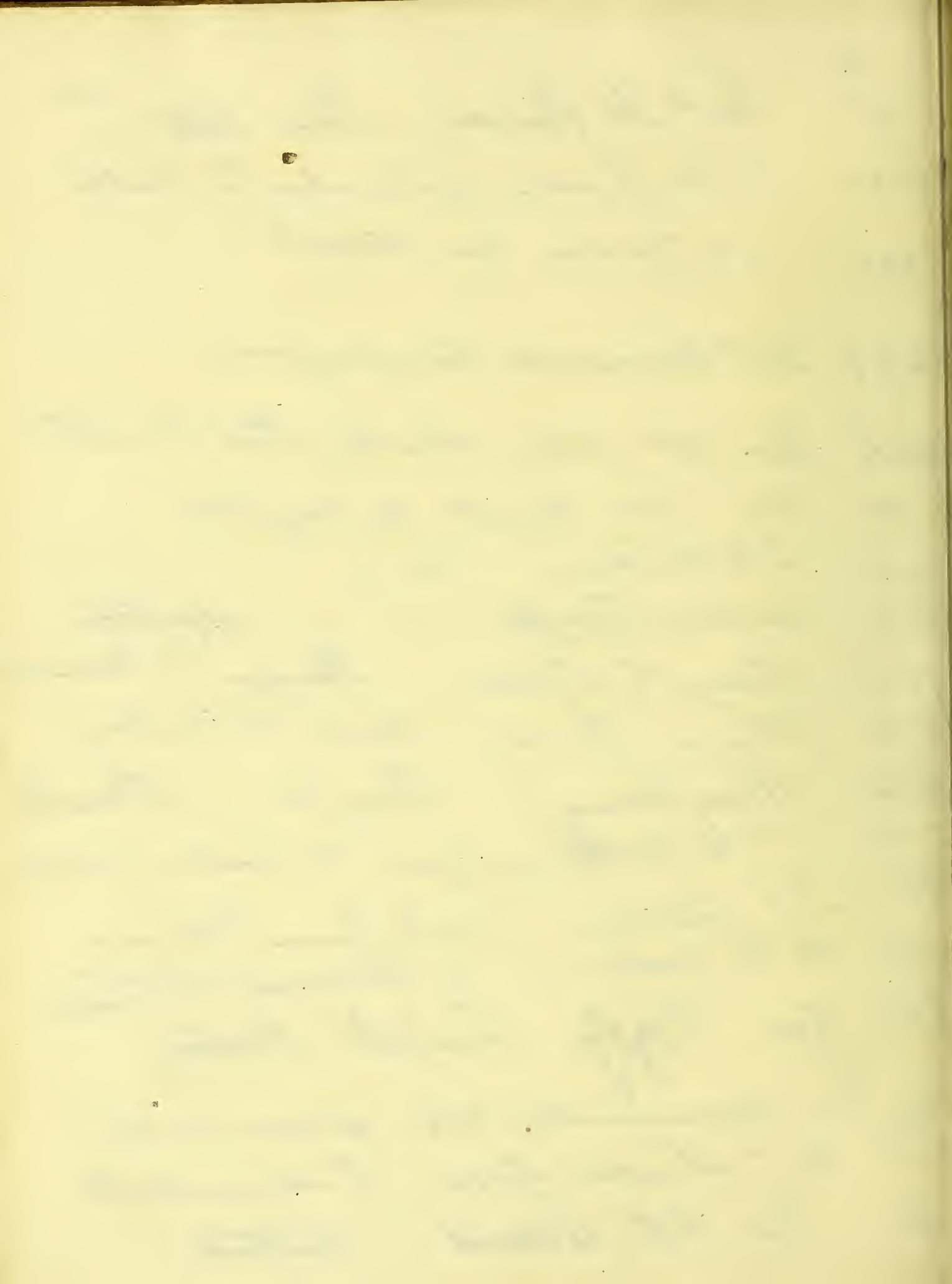
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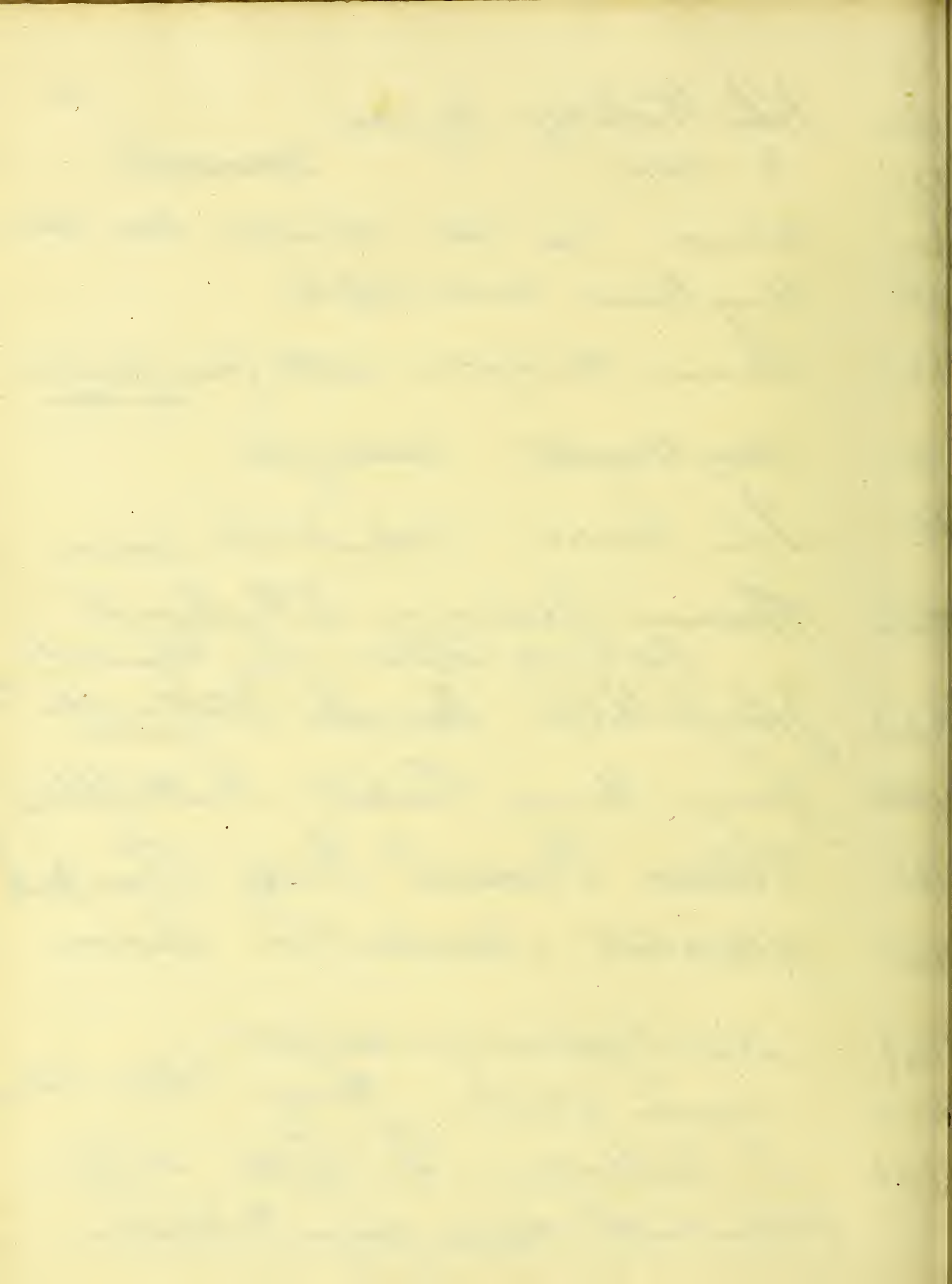
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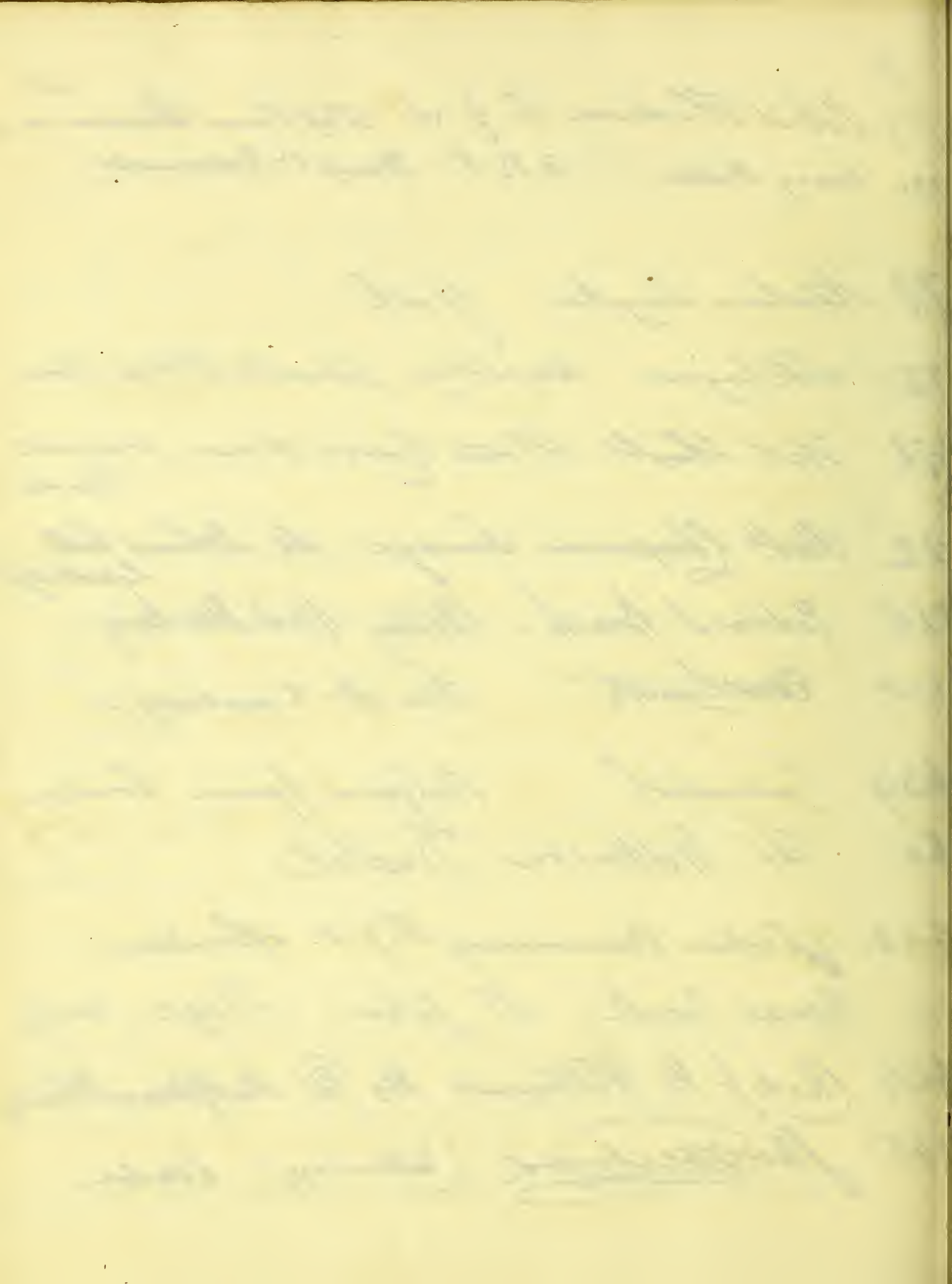
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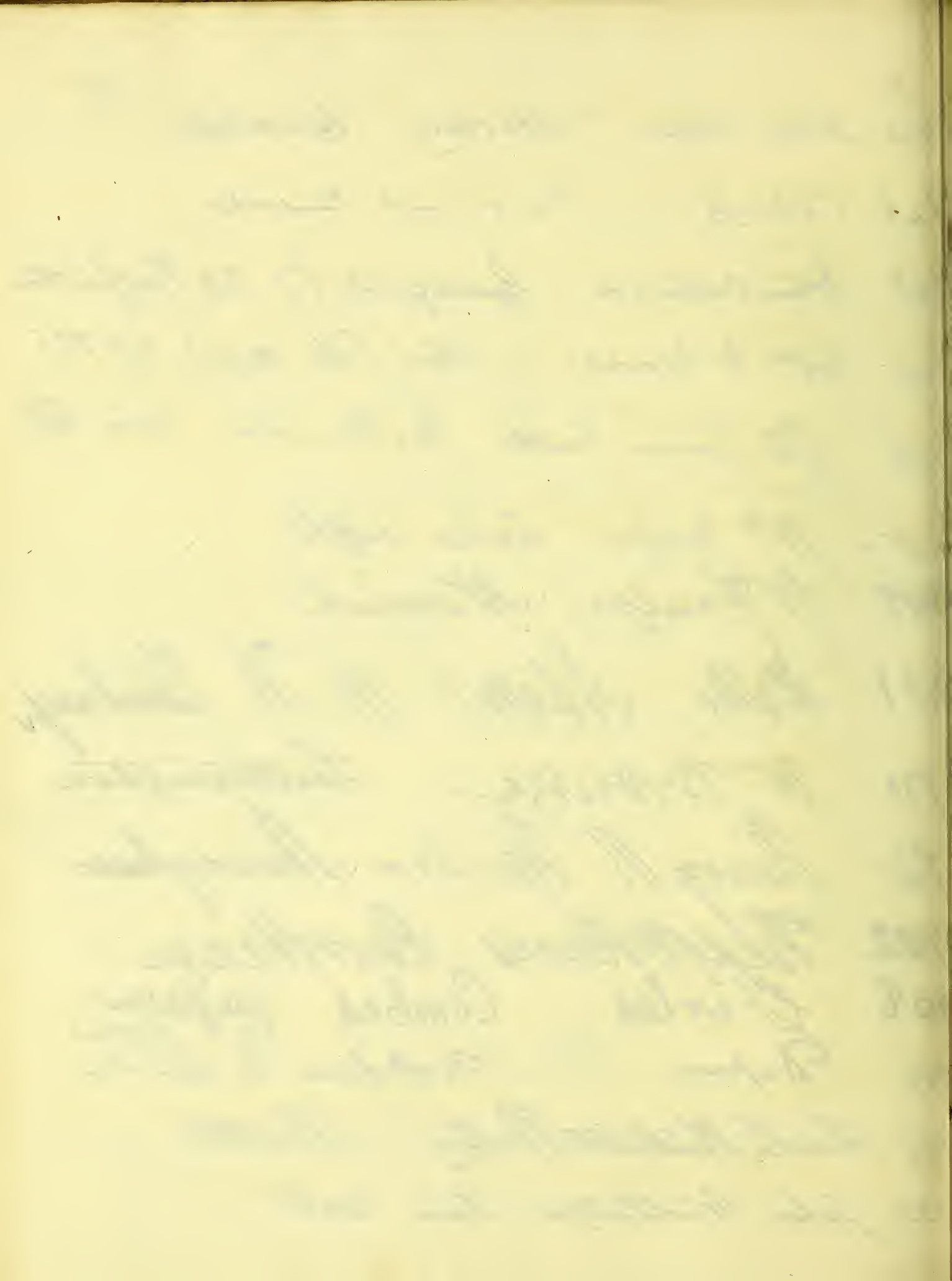
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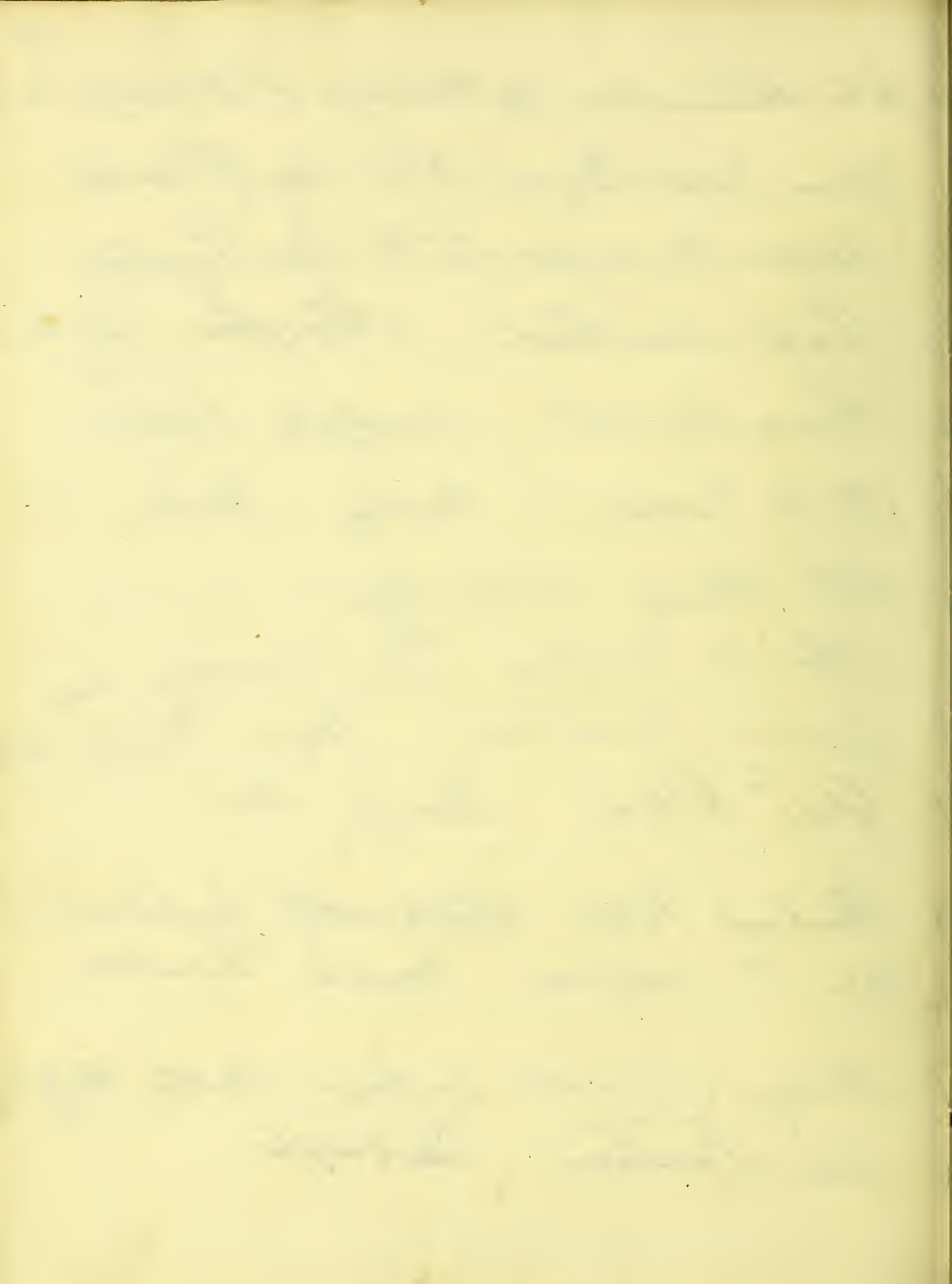
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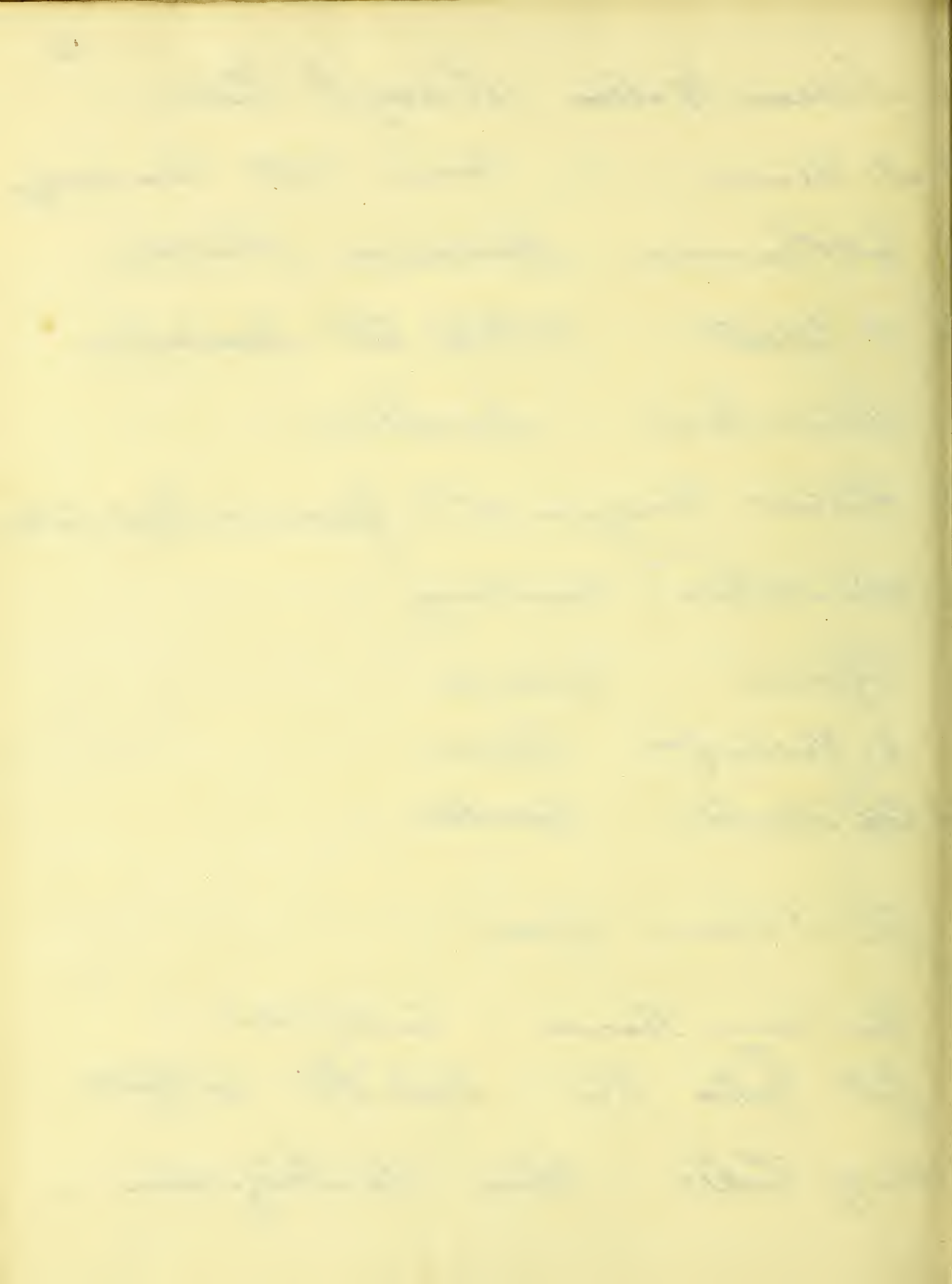
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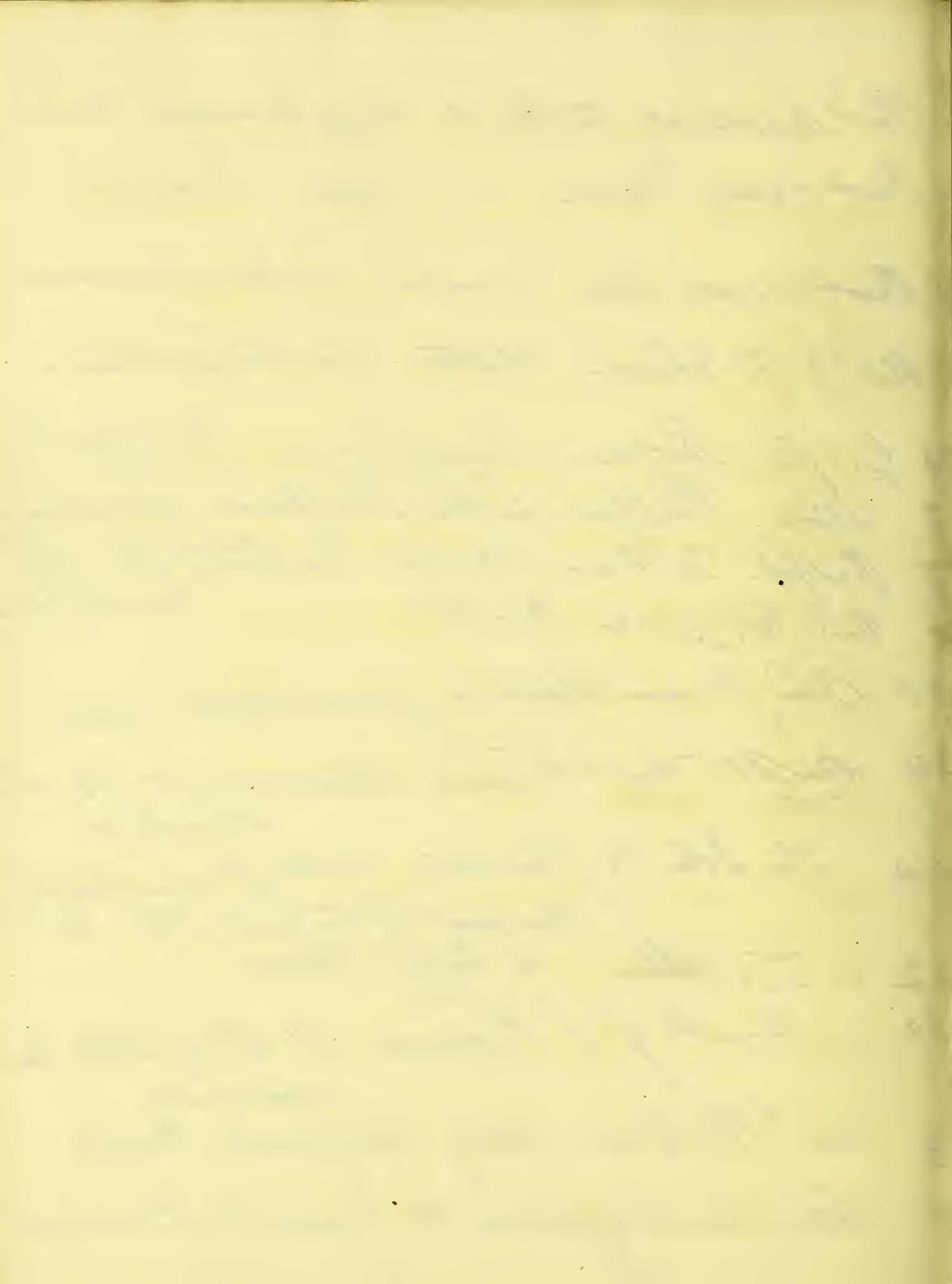
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Thos Havell - The Leys Lamb

William Law Buxford Suffolk

David Brewster Allerby Melrose

Mr J. R. Wright Biggleswade

Rev. H. Minack. St. John's College

Rev Sam Lytton Corpus Christi Coll

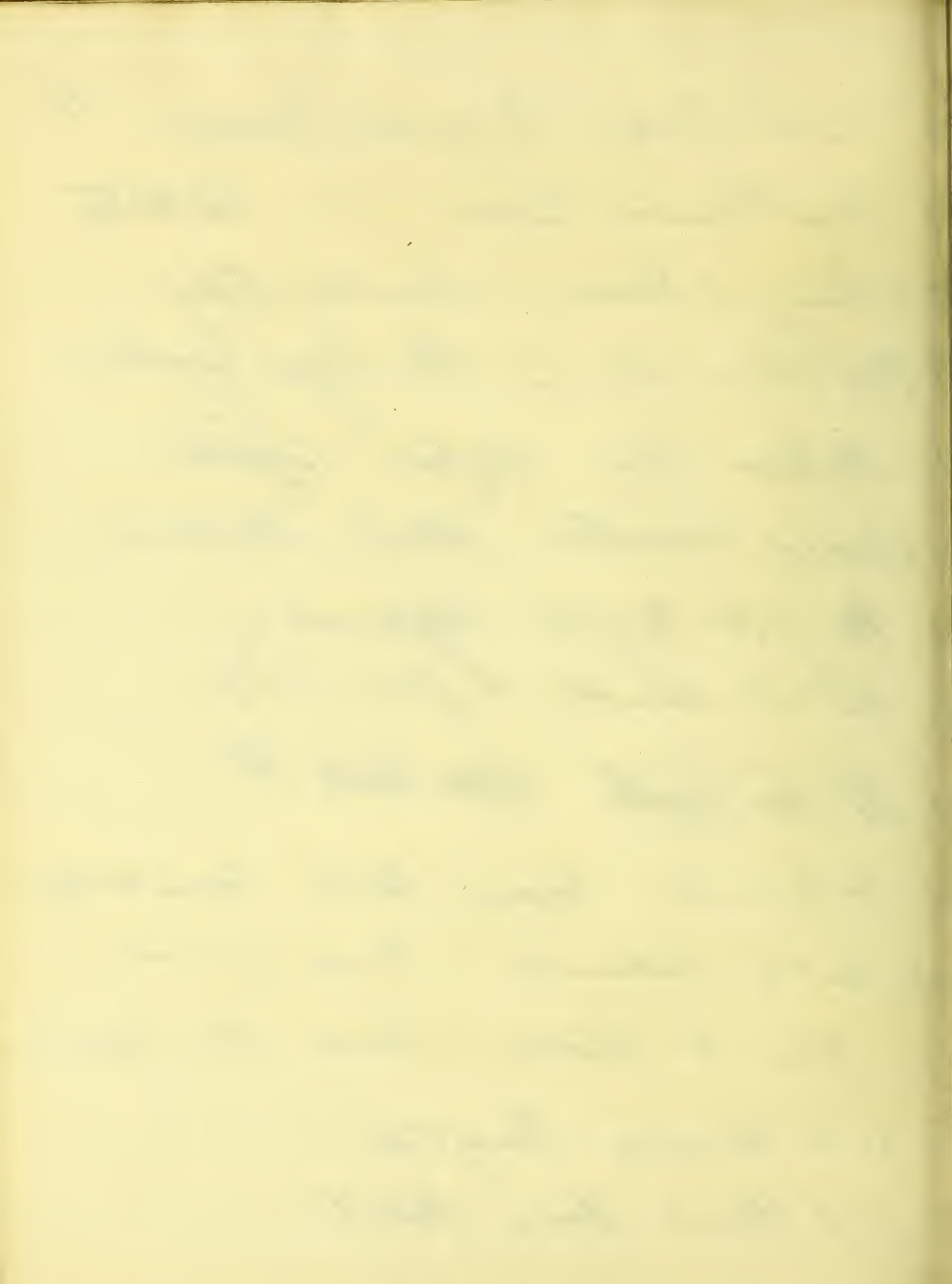
W. Pidcock. Queens' Coll. Cambridge

Rev. H. Bathwick Kings' Cambridge

John W Moore Exeter Coll: Oxford.

R. H. Smiles Kingston

J. A. Paris. Dover Street



Frederic Myers. B. A. Chesham.

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Evans Riadore 17 Tavistock Square

Sam Row. Stonehouse, Plymouth, Devon

James Colley Shrewsbury

David Hoffman - Maryland

Wm Kirby Batham Ipswich A. M. F.R. L. & G. S. S.

Marshall Hall 14. Manchester Square

John Thomas Huntley Kimbolton Hunts

Edw. Moreo 62 Welbeck Street.

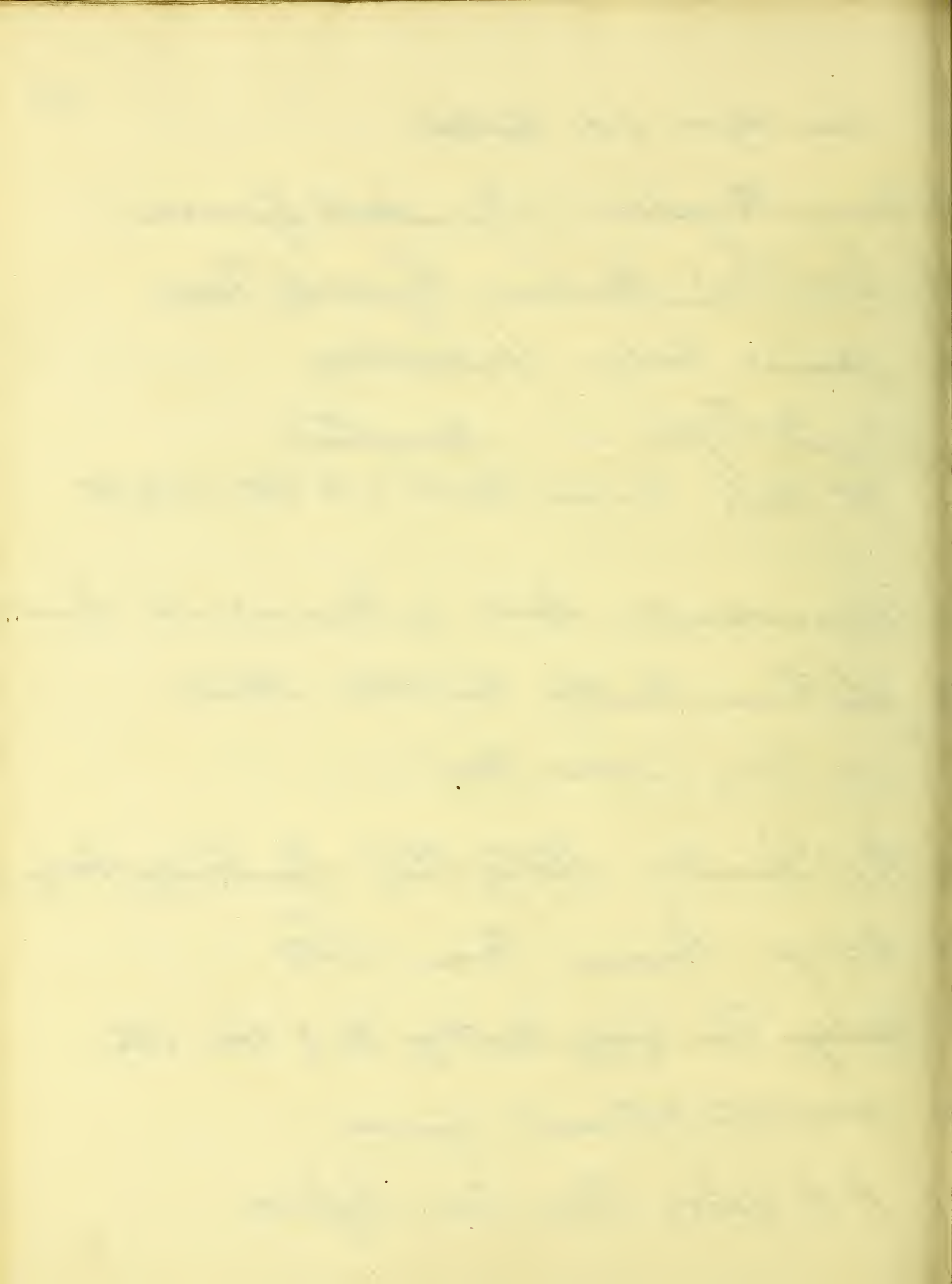
Thos. Duntin. Hatley Park. Cambridgeshire

George Soane Trin Coll

Montague John Gregg Hawtreys M. A. Trin. Coll

Wm Walter Ma Temple - London.

R. B. Wilson Univ. Coll - Oxford



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- Joseph. Tague — Physick Philadelphia
 1 J West Nevins Physick Philadelphia
 4 John H. Ash — London.
 5 Patrick D. Stadow. — Ball. Coll: Oxford.
 2 Henry Beaumont Leeson — Cairns Col Camb
 3 Wm Robinson 46 Weymouth St. London
 4 Frederic Norris Grosvenor Rectory Camb:
 35 J. C. Snowball St John's W.
 36 Charles Pearson, Greenwich, Chemistry
 7 John Isaac Hawkins Physics London
 8 Joseph Saxton Physics Philadelphia
 9 William Keeling St. John's Coll:
 10 J W Perry St John's Coll
 David Fearn Phys Bucks.
 2 S. R. Solly F.R.S. Surge Genl Herts
 3 William Summs F.R.A.S. 136 Fleet St London
 George W. Skelton Christ College Cambridge
 4 D. Howard Portico
 5 Q. W. Morris Geology London

James Edward Dalton. Queens College. Cambridge.

Morgan Thomas, Trin: Coll. Cambridge

Edwin Hill Snodley, Trin: Coll: Cambridge

John Kennedy Manchester

Sir Chas Watson B^o Wootton Bassett

W. H. Thompson B.A. Trin: Coll. Cambridge

George Henrich. Hampstead n^o London.

Wm. Prout. Sackville St. London.

Disney Lander Thorpe M.B. Cairns Coll: Cambridge
Leeds (Anatomy & Medicine)

Douglas Compton - Castle Ashby Northamptonshire

Edward Jones Farnwell. Town Making Kent

W. Bruns 53 Parliament St London -

Geo. Freere Lincoln Inn London

John Rowland Queen's College Cambridge

Thomson Chalmers Edinburgh University

3 Jos. J. Lister Upton Essex 61
Robert Harry Inglis - Battersea Rise, Surrey
William Lloyd Birkbeck Trinity College

My dear Sir

I cannot leave this Sanctuary of Science and Hospitality
without expressing how gratefully I feel the attentions I have
received in it and witnessed: and I may add that the last week
of June 1833 otherwise the annual fair of the British —
Association will have a most gratifying recollection on the mind
of Yours very truly

W. L. Birkbeck

Trinity College
1st of July 1833

I should be sorry if my name were left out
of the List of your Book or collection: Understanding
that the List is to be Lithographed I hope the above
will be sufficient.

BRITISH ASSOCIATION

FOR THE

ADVANCEMENT OF SCIENCE.

THE Third Meeting of this ASSOCIATION commenced at CAMBRIDGE, on Monday the 24th of June, 1833, in accordance with a resolution passed at OXFORD the preceding year.

The following is an abstract from the Programme issued by the General Committee, for the direction of persons intending to be present at the Meeting.

REGULATIONS OF ADMISSION.

1. No gentleman except he be a Member can be admitted to any of the Meetings, unless by a special order from the Managing Committee.

2. Scientific Foreigners, recommended by a Member of the Association, who may honour the Meeting by their presence, will receive tickets of admission gratis, upon application to the Treasurer, at the House of the Philosophical Society.

3. Tickets (to be exhibited at the Door of all the Places of Meeting) will be delivered to Members, on application for them at the Philosophical Society, where a Deputation of the Managing Committee will be in attendance on each day from 9 to 1 and from 6 to 8 o'clock.

4. Persons desirous to become Members must make application at the Philosophical Society.

5. Ladies' Tickets for admission to Meetings in the Senate House will be delivered to Members on application at the Treasurer's Room.

6. There will be an Ordinary (at Five Shillings a head, not including Wine) at the Hoop Inn, on Monday, Tuesday, Wednesday and Thursday, at Half-past Four o'clock: Notice of dining to be given at the bar before Eleven o'clock.

7. The Reading Room of the Philosophical Society, will be open during the whole of each day to Members of the Association.

8. Tea and Coffee will be provided for the Members at the Senate House, every Evening at Eight o'clock.

9. If any Lectures are to be delivered in the Senate House, in the Evening, notice will be previously given.

10. A book containing the Cambridge Addresses of Members attending the Association, may be consulted in the Reading Room of the Philosophical Society, where all notices and memoranda may be left.

11. The Lithographic Signatures will be ready for distribution after the Meeting.

GENERAL ORDER OF BUSINESS EACH DAY.

Ten A.M. Meeting of the General Committee, in the Hall of Trinity Hall.

Eleven A.M. Meetings of the Sections in the Schools, &c. for receiving and discussing communications.

One P.M. General Meeting of the Association in the Senate House.

Eight P.M. All Members of the Association invited to the Senate House; the Sectional Meetings resumed; afterwards a Lecture delivered.

ARRANGEMENTS OF THE SECTIONS.

I.

Sections of Mathematical and Physico-Mathematical Sciences (Astronomy, Mechanics, Hydrostatics, Hydraulics, Light, Heat, Sound, Meteorology, and Mechanical Arts.)

Meetings for reading papers, &c. Room A, (*Plumian Lecture Room*), from Eleven to Twelve.

II.

Section of Chemistry, Electricity, Galvanism, Magnetism, Mineralogy, and Chemical Arts and Manufactures.

Meetings for reading papers, &c. Room B, (*Arts Schools*), from Twelve to One.

III.

Section of Geology and Geography.

Meetings for reading papers, &c. Room C, (*Divinity Schools*), from Eleven to Twelve.

IV.

Section of Natural History, (Zoology, Botany and Vegetable Physiology.)

Meetings for reading papers, &c. Room D, (*Law Schools*), from Twelve to One.

V.

Section of Animal Physiology, Anatomy and Medicine.

Meetings for reading papers, &c. Room E, (*Caius College Hall*), from Eleven to Twelve.

* * * The Committee of each Section to meet at *Ten* every Morning.

On Monday morning some of the Sections proceeded to the business of receiving and discussing communications.

GENERAL MEETING. MONDAY.

In the evening, a General Meeting of the Members took place in the Senate House, and a discussion on the phenomena of the Aurora Borealis, which had been commenced in the Physical Section in the morning, was resumed. In this discussion Dr Robinson of Armagh, Dr Dalton of Manchester, Sir John Herschel, Prof. Airy, Prof. Christie, Mr Scoresby, and Mr Whewell, took a part.

GENERAL MEETING. TUESDAY.

At one o'clock, a General Meeting was held in the Senate House. The meeting was extremely numerous, and composed of a large proportion of the most eminent men of science in this country; and we observed with much pleasure some distinguished foreigners from the continent of Europe, and several scientific gentlemen from America. The meeting was also honoured by having the galleries in several parts of the room occupied by ladies. The officers of the Association, and several persons of distinguished science and rank, occupied the elevated seats behind the President's chair.

Dr BUCKLAND as the President of the last Meeting having taken the chair, proceeded to address the meeting in the following terms:—

My Lords and Gentlemen of the British Association for the Advancement of Science.—I cannot allow myself to resign the honorable office in which during the past year I have by your favour been placed, without offering to the Association my sincere congratulations on the unexampled though not unexpected success which has attended our exertions. When I last had the honour of addressing you on the eve of our separation at Oxford, I ventured to anticipate that we should re-assemble on this day with increasing numbers and renovated energies, to resume our labours within the walls of the University of Cambridge. The august assembly by which I am now surrounded shows how abundantly my most sanguine expectations have been realized. If I had ever any misgivings at the first commencement of our career, as to the probability of inconveniences that might attend the establishment of this Association, they arose from the circumstance that we seemed to be as it were pledged to the Philosophical Societies of this country not to interfere with those memoirs and communications to which in their respective departments they might possess a prior claim; the result of two years' experience has dissipated those misgivings, and we may appeal with confidence to our volume of Reports now published to the world, in proof of the fidelity with which our pledge has been redeemed. In this volume we have Reports by several highly distinguished men of science, as to the actual state of our knowledge on some of the most interesting and most important branches of human enquiry: of each and all of these it may truly be asserted, that interesting and important as the subjects are, and admirably as they have been treated, these contributions to our knowledge are such as no other society would have ever asked for, or could have admitted into their transactions.

We have the history of the recent progress of our knowledge with regard to the constitution of the heavens, the structure of the earth, the mineral ingredients of which that earth is internally composed, and the phenomena of the ocean and atmosphere by which it is surrounded; we have summaries of our information as to most important points in the history of light, heat, and electricity; we have an exposition of the actual state of the science of chemistry, that important science which unfolds to our view the recondite and wonderful machinery, and combinations of machinery, by which the stability of the material world is maintained, and its secret changes are carried on; we have, finally, a review of the history of our own species, as far as it can be collected from a comparison of the philological and physical phenomena presented by the various existing races of mankind.

Gentlemen, moments like the present are much too precious to be expended in retrospective observations. My remaining task is short, and would indeed be painful, were it not that in retiring to the ranks, from which I have by your favour been for a while promoted, I have the high gratification to resign my office to my friend and fellow labourer in the same department of science, to my colleague and brother Professor in a Sister University; a University which has ever been the nursing mother of literature and science—a University which has cherished in her bosom a Bacon and a Newton—and which now holds out to us the right hand of fellowship to receive with kind affection and splendid hospitality the assembled members of the British Association for the Advancement of Science.

The President, the Rev. Professor SEDGWICK, then took the chair, and addressed the meeting.—In presenting himself to the Members of the British Association for the Advancement of Science, he thought he had a right to consider every person there assembled as participating in the feelings and friendly to the objects which had brought them together. He would address them not in any prepared form of words, but in such language as was dictated by the overwhelming occasion. In the first place let him speak to their late President, Dr Buckland. It was not the first time that he (Mr Sedgwick) had heard from him words of kindness—ever heard with joy, as they were associated with the thoughts of kindred pursuits and of other circumstances most endeared to his remembrance. Let him also revert to the splendid hospitality they had last year experienced at Oxford; and as the progress of the Association, indeed its very existence, depended on a good beginning, to the means adopted at Oxford was mainly to be attributed the present firm establishment of the British Association, and the splendid meeting they beheld that day. In expressing his own heartfelt gratitude towards the sister University he was well assured that every man present would warmly join him—(*loud cheers.*)—In regard to the subjects then before them, they were so numerous and important, that he could have wished to have written out a short comment on the book containing the Reports of the Association, and to have made it the substance of his introductory address; but he was prevented from attempting this task by two causes—in the first place by his incompetence to grapple with various subjects, many of them embracing the profoundest investigations of exact science—in the next place by ill health. To Mr Whewell, without whose assistance he could hardly have taken the chair, he was indebted for having undertaken that task, and he (Mr Whewell) had

written a short review, presently to be read to them, of some of the most important questions treated of in the published volume of the Association. It would be impossible for him, were he a hundred times more voluble than he was, to enter into all the topics fit to be laid before them. In the first place in thanking them for the kind expression of their feelings towards him, both, when he was elected their future President at Oxford, and on this occasion when he was about to take the chair, he must state, (and he was not affecting modesty when he said it,) that there were many distinguished persons—many whom he then saw around him far better fitted than himself to have filled that high station. He could well have wished that such illustrious persons as Sir J. Herschel or Professor Airy, or some of those who had distinguished themselves in the loftiest flights of exact science, had taken the chair rather than himself: compared with their investigations his pursuits were a mere groveling in the rude matter of the earth; and as for the higher branches of abstract science he could only call himself a well-wisher to them. Twenty years ago he had indeed attempted this arduous intellectual warfare, but he found himself unequal to the combat, and had retired for shelter among the rocks. Let him now, and he spoke it in the name of the University of Cambridge, bid the Association welcome to all the hospitality they could offer—to all the kind offices that men of kindred pursuits could manifest towards one another. His friend Dr Buckland had alluded to some glorious topics in the annals of the University, which he never heard without feelings of exultation—which ever waked a chord that vibrated within his heart: he had mentioned the names of Bacon and Newton, and he (the President) should repeat those names with sentiments of shame if he thought their spirit had passed over our academic body, and left no trace behind—if their mantle had not descended on those who followed after them—if such stars of science had lighted that horizon in other days, but left the present race in intellectual darkness—if this University were but the sepulchre of departed genius which had now no living representatives. He dared not indeed mention any living man along with those immortal names; but he did affirm that there were still within the bosom of the University many men gifted with high capacity devoted to the cause of truth; whose works were indeed better known to that assembly than they could be through any panegyric of his own. If in the history of the University, during the past century, he were permitted to fix in imagination upon that year when a great assembly like the present could meet with most propriety within its walls, his memory could supply him with no year more glorious than the present. (The President then alluded to the erection during the past year of a museum of Comparative Anatomy—to the completion of the magnificent instruments in the Observatory—to the Cambridge Philosophical Society, now become a chartered body, the members of which were erecting a new building for their meetings, unfortunately not yet completed, though they had at one time hoped to have entertained in it the members of the Association. He also mentioned the completion during the past year of a magnificent establishment connected with the Press, and the newly formed collections in Botany and other branches of Natural History). Surely, he observed, these things prove that science has not slept here during the past years of the University.

Did he believe that the splendid sight he saw around him was but a monument of ostentation—a mere homage to personal vanity, he should look on it with feelings far different from those he now experienced: and though he might rejoice at the external honours paid to science by this assembly, he should regard them as little better than the gaudy colours on the surface of a bubble which are seen for a moment and vanish into air. Personal vanity had not actuated the men there assembled—they had come in hopes of meeting men of kindred pursuits, many of them from a great distance and at a great cost of time—they were urged on by the love of truth—they had acknowledged the effects of social sympathy—they had felt and obeyed that philosophic impetus which gave all its vital energy to their Association. His friend Dr Buckland had talked of former doubts regarding the success of this Society. To talk of doubt now would be madness—he could feel no doubt; for when he saw around him so many distinguished philosophers, he felt that every one of those persons had given his pledge to push on this great machine—had embarked in it a part of his own intellectual capital—so that a philosophic bankruptcy was now entirely out of question. There was another kind of capital of more vulgar use, which he must briefly mention. The funds of the Association were so flourishing, that they were not merely adequate to the ordinary annual demands, but the members would learn during the proceedings of the week, that they could afford substantial pecuniary assistance to several distinguished philosophers for conducting expensive experiments recommended by the sections to the General Committee. To another topic he must allude—he meant the great advantage the Society gave the University by inducing distinguished Foreigners to visit it. He hailed it as a blessed omen, that the great barriers which for a length of time had severed man from man, and almost prevented them from understanding each other's language, had now been broken down—that the high flood of kind fellowship was fast flowing over the dams thrown up during the reign of national prejudice and the long continuance of national hostility. He begged to state to those distinguished Foreigners who were present, that if from the great variety of employments pressing upon the minds of the members of this University they were unable to pay them proper personal attention, it arose not from any feeling approaching to neglect, but from the circumstances he had referred to, which they themselves must have noticed. In the name of the Society and of the University—as the organ of the Association, he bid them all a most hearty welcome.

His friend Dr Buckland had alluded to the peculiar circumstances under which they met; not now struggling into life, but with the stature of manhood—with the honours of paternity—already blessed with a lusty progeny. This volume, gentlemen, (*holding up the Reports of the Association*) is the offspring of the past year; a healthy child witnessing the healthy state of the parents from which it sprung—shewing none of the feebleness of childhood, but the stature of perfect manhood—like Minerva starting at once full armed from the head of Jupiter.—(The President here following up this image, went on to state, that he hoped the volume of Reports published by the Society, would be the commencement of a long and illustrious progeny.) With regard to the Reports he was almost prevented from the necessity of noticing them, as Professor Whewell had undertaken that task. There was

one however to which he would allude, he meant that on Mineralogy by the Professor himself, as that of all others perhaps was the one to which he (Professor W.) would do the least justice: for though there were some men who thought so much of themselves that they could hardly ever think of truth, there were others who thought so much of truth they could not bear to think of themselves. This Report presents to England the science of Mineralogy under a new aspect: and it appears, that in these investigations, we are greatly behind the continental philosophers. (The President then in a rapid manner, which the Reporter could not by any possibility follow, adverted to the peculiar views belonging to this subject, connected with the labours of Sir David Brewster, who as an experimental discoverer had done more for this branch of science than all the philosophers of Europe put together; standing, in respect to Physical Optics, in a position resembling that occupied by the great Kepler during the advancement of Physical Astronomy; also to the connexion of Mineralogy with the higher branches of Chemistry;—and here he took occasion to observe how all the sciences branched into each other,—and from this topic he proceeded to comment on the indications of design, and of an universal predominating intelligence, manifested through all the kingdoms of nature. He then remarked that man was compelled by his intellectual nature to ascend from phenomena to laws, and the moment he grasped the idea of a law he was compelled by the very constitution of his inner mind to consider that law as the annunciation of the will of a Supreme Intelligence). In the same rapid manner he made a short allusion to the questions of Physical Optics. It had sometimes, he observed, been objected against the old academic institutions of this country, that they consisted of men hemmed in by prejudice—prone to be looking back, when they ought to have been looking forward—and always prepared to reject a new theory, if it were not in accordance with old and received opinions. Such, however, had not been the spirit manifested during the progress of Physical Optics. Old opinions, though backed by no less a name than that of Newton were fast giving way; and the new Theory of Undulations had found its earliest and stoutest champions in the three old Universities of the Empire. (He then passed on to the more specific suggestions to men of science given in various parts of the Report, and to the new subjects of investigation pointed out by the several writers of the published memoirs. He considered these suggestions as of vital importance, and connected with the most essential objects of the Association; and if he had dared to call the published volume its first born progeny he might well anticipate from the influence of their recommendations, a long line of collateral descendants. He then illustrated the good effects he was contemplating by referring to the specific recommendations of the Geological Section, and to the value of the results which might ultimately be obtained by attending to them.)

In proceeding to detail the week's work that was before them, in the first place, let him give his cordial thanks to the two Professors, Henslow and Whewell, the excellent Cambridge Secretaries of the Association. Had it not been for their active devotion to their duties he could not have undertaken his present important task; but by them every thing had been put in preliminary order, which would be rendered complete when they (the Members) had applied

their genius to the details, and to the subordinate arrangements. He had now to state to them the readiness of the authorities of the University to assist them. The Vice-Chancellor and the Heads of Colleges had expressed a willingness that every thing should be done, as far as circumstances admitted, to emulate the splendid reception given at the former Meeting to the Association by the sister University. The room where they were now assembled had been given up to the use of the Society till Friday evening; beyond that time the University had no power to surrender it to any other body, as it was wanted for the celebration of an important academic ceremonial which necessarily commenced on Saturday. On Friday evening, therefore, their occupation terminated. (The President then stated the plans laid down for the purpose of accommodating the Noblemen, Heads of Colleges, and other distinguished visitors, and especially those ladies who might honour the Society by attending the meetings; and pointing to the raised seats on the right hand and on the left, he pronounced himself an Autocrat in questions of order, and said that he would proclaim any gentleman, who occupied those seats while one lady was unaccommodated, guilty of high treason against the whole Association. Having noticed the time at which the Sections would meet together, and their respective duties, he explained at some length the organization of a fifth Section devoted to questions of Anatomy and Physiology.)

He then announced that on Thursday there would be a Congregation in the Senate House for the purpose of conferring degrees—Noblemen, by the statutes of the University, were entitled by privilege to a degree, and if any distinguished Nobleman were present who wished to take a degree, the University would, he doubted not, rejoice to confer it upon him. Any Graduate of the University of Oxford had the power by a peculiar form of admission, to become a Graduate of the same rank in this University, and this applied also to Graduates of the University of Dublin.—It was indeed for the very purpose of conferring such degrees that the Congregation for Thursday morning had been called.

Some gentlemen might be surprised that as honorary degrees had been conferred upon four most distinguished philosophers during their stay at Oxford, they should not receive the same mark of respect at this place. There was a large body of men who derived their honours from adventitious circumstances; but there were others who conferred honour upon any place or country which they visited.—They were like the great luminaries of heaven, not confined to one narrow horizon, but giving light to every portion of the earth which light was permitted to reach. Such were the persons to whom he had just alluded. This University had not the power of conferring any *honorary* degrees unless by a *mandamus* from the King, and the consequence was that these degrees had never been conferred on occasions like the present. That those distinguished persons who received degrees at Oxford did not receive such here, was not from a want of feeling in the individual members of this University towards their merits, but from a want of power in their corporate capacity.

They had all read a highly poetical passage of a sacred Prophet, expressed in language, to the beauty of which his feelings had never before been so forcibly awakened as at that moment—“*How beautiful upon the mountains are the feet of him*

that bringeth good tidings." If he might dare to make an adaptation of words so sacred, he would say that he felt himself in the position here contemplated—of one who had the delightful privilege entrusted to him of announcing good tidings: for it was his happiness to proclaim to them what would rejoice the heart of every true lover of science. There was a philosopher sitting among them, whose hair was blanched by time, whose features had some of the lines of approaching old age, but possessing an intellect still in its healthiest vigour—a man whose whole life had been devoted to the cause of truth: he meant his venerable friend Dr Dalton. Without any powerful apparatus for making philosophical experiments—with an apparatus indeed many of them might think almost contemptible—and with very limited external means for employing his great natural powers, he had gone straight forward in his distinguished course, and obtained for himself, in those branches of knowledge which he had cultivated, a name not perhaps equalled by that of any other living philosopher of the world. From the hour he came from his mother's womb, the God of Nature had laid his hand upon his head, and had ordained him for the ministration of high philosophy. But his natural talents, great as they were, and his almost intuitive skill in tracing the relations of material phenomena, would have been of comparatively little value to himself and to society, had there not been superadded to them a beautiful moral simplicity and singleness of heart, which made him go on steadily in the way he saw before him, without turning to the right hand or to the left, and taught him to do homage to no authority before that of truth. Fixing his eye on the highest views of science, his experiments had never an insulated character, but were always made as contributions towards some important end—were among the steps towards some lofty generalization. And with a most happy prescience of the points towards which the rays of scattered experiments were converging, he had more than once seen light while to other eyes all was yet in darkness—out of seeming confusion had elicited order—and had thus reached the high distinction of becoming one of the greatest legislators of chemical science. While travelling among the highest mountains of Cumberland, and scarifying the face of nature with his hammer, he (the President) had the happiness of first being admitted to the friendship of this great and good man, who was at that time employed, day by day, in soaring among the heavens, and bringing the turbulent elements themselves under his own intellectual domination. He would not have dwelt so long on these topics, had it not been his delightful privilege to announce for the first time (on the authority of a Minister* of the Crown, who sat near him) that his Majesty King William the IVth, wishing to manifest his attachment to science, and his regard for a character like that of Dr Dalton, had graciously conferred on him, out of the funds of the Civil List, a substantial mark of his Royal favour. (*This announcement was received with long continued applause*).

The PRESIDENT then went on to state the order of the different Meetings of the Association during the week: and added that on Friday afternoon it would be his duty to dissolve their Meeting. Minerva would then retire from this her

* The Right Hon. T. Spring Rice, M.P. for the Town of Cambridge.

Temple: but Apollo and the Muses would come and occupy her throne. There was, he said, a moral fitness in this arrangement; for music itself was high philosophy, and it was well that the concord of sweet sounds should follow those sublimer harmonies in which many of the distinguished men he had the happiness of seeing before him, were about to perform their part. He concluded his address by observing, that out of such a multitude, he was fearful some gentleman might think he had not the attention paid to him he had a right to look for. He and his friends were anxious that every gentleman present should be treated with the utmost courtesy; and should any one, from unavoidable circumstances, feel that he had been in any way overlooked, he begged that the most favourable interpretation might be put upon his own conduct, as well as that of his friends; as he assured them it was their anxious desire, not merely to promote the general interests of the Association, but also the social enjoyments of every individual who attended the Meeting.

After requesting Mr Whewell to read the review of the Reports (mentioned above) the President sat down.

Mr WHEWELL'S Review was here read.*

Mr J. TAYLOR then proposed that the persons who had been approved by the Council and General Committee, should be elected Members of the Association.

The Rev. W. SCORESBY having seconded the proposition,

The PRESIDENT put it to the Meeting whether they would carry this by acclamation, or have each person's name read to them separately.

The Meeting immediately carried the proposition by acclamation.

The business was then adjourned to eight o'clock in the evening.

TUESDAY EVENING.

The Members met this evening in the Senate House, pursuant to adjournment.

The PRESIDENT called upon Mr Taylor to read his Report on the present state of our knowledge on the subject of Mineral Veins.

After the reading of the Report a discussion took place upon the origin of veins, which had been classed by Mr Taylor under three principal heads, under the names of, "Veins of injection," "Veins of segregation," and "Veins which were the upfilling matter of pre-existing fissures."

The PRESIDENT defended the propriety of these sub-divisions, which he justified by examples; he thought, however, that veins of segregation formed a much more extensive class than had once been supposed. The term *segregation* had been first applied by Mr Whewell to avoid the term *contemporaneous*, which was inapplicable to any class of veins passing through stratified rocks.

Dr BUCKLAND considered the last of the three sub-divisions as forming a large class of veins which he supposed to have been filled by sublimation; the result of igneous action in the lower regions of the earth.

* This Review has been already printed for distribution among the Members, and as it will also appear in the general Annual Report it is here omitted.

Mr WHEWELL next addressed the Meeting, stating that he considered himself as only the scholar of Professor Sedgwick in geology, and that the adoption by his master of a term invented by the pupil was sufficiently gratifying to reconcile him to the charge of being a neologist. He then adverted to the possibility that chemical or galvanic causes acting for a very long period might gradually produce the separation of the matter of veins from that of the surrounding rock.

Dr BOASE forcibly maintained his published opinions, and asserted that veins had not *walls*, as was commonly supposed, but were contemporaneous with the rocks they traversed.

Mr PHILLIPS mentioned several very interesting facts (ill reported in consequence of the lateness of the hour) which, he conceived, confirmed the views referred to by Mr Whewell.

Mr Fox adverted to some peculiarities in the form of the basaltic dykes in the northern coal fields, which he considered to throw considerable difficulties in the way of some of the theories before advanced.

The PRESIDENT, in alluding to the remarks of Mr Fox, pointed out the entire difference between basaltic dykes of injection and common mineral veins. He then very shortly recapitulated the substance of the remarks made during the discussion and adjourned the meeting.

GENERAL MEETING. WEDNESDAY.

The Members having assembled in the Senate House this day at one o'clock,

The PRESIDENT said, that according to the order established at Oxford last year, the Presidents of the different Sections would now read to the assembly a brief account of the business that had been transacted in their several departments.

After this, Mr PEACOCK read a Report on the Recent Progress of certain branches of Mathematical Science.

Professor LINDLEY read a Report on the present state of Physiological Botany.

Mr G. RENNIE read a Report on the present state of our knowledge of Practical Hydraulics.

The Meeting then adjourned to the following day at one o'clock.

DINNER AT TRINITY COLLEGE.

In the afternoon an entertainment was given in Trinity College to as large a party of the Members of the Association as could be accommodated in the Hall. The Vice-Master (Rev. J. Brown) presided.

After grace had been said, an Anthem, according to the custom of the College on festival days, was sung by the choir.

The toasts of "The King" and "The Queen and Royal Family" having been drunk,

The VICE-MASTER rose, he said, with peculiar pleasure to propose a toast connected with the British Association. It had been his intention to offer a few remarks upon the present Meeting if he had not been anticipated. He should

probably have enlarged upon the energy of its combined operations, and the stimulus which it gave to individual exertion. But every thing that could bear upon this subject had been said already, and well said: and he should be extremely sorry, that any feeble efforts of his should dim or tarnish the brightness of the impression stamped by the eloquence of the President. He had therefore only to repose himself upon the pleasure of wishing prosperity to the British Association.

The Rev. Professor SEDGWICK rose amidst much applause. He observed that his ears had of late been so much accustomed to hear those expressions of their kindness, that if they were much longer continued, he feared he should become quite hardened against their proper influence. He could not, however, feel that this compliment was paid personally to himself, but rather to his situation as Chairman of the British Association. It had been his endeavour to do his utmost for the Association, but his efforts were feeble from ill-health; he had, however, within this day or two received a new accession of strength from the presence of the assembled Members. He now knew that the Association had unfurled its sails, and was going briskly before the wind, and he had no doubt that its voyage would continue prosperous. He was in a somewhat embarrassing situation, and ought to be gifted with at least a triple tongue; for if he thanked the Members of Trinity College for their kind reception, he might seem only to be thanking himself as one of the Fellows of that Society. As the President of the Association, he must however speak for the body he represented. Let him, therefore, for one moment cease to be a Fellow of Trinity College; let him cast away his individuality and speak, as the organ of the Association, to his dear friend the Vice-Master. In this capacity he would tell him, and the other Members of the College who were present, that the Association which now visited them were a combination of independent men, met together for the promotion of truth, and of all those good objects, for the furthering of which their noble foundations had been laid. He felt proud of the body he represented; they deserved all the kindness they experienced; and had not this College held out to them the right hand of fellowship, they should only have shaken off the dust from their feet, and sought hospitality at another threshold. Such, however, had not been their reception, nor ever would be, he was well assured, while the College towers stood erect. They had met there, as he hoped they would hereafter, in all the warmth of cordial friendship, and they were reaping together the fruits of a happy intellectual union.

Let him however come down from the throne on which they had placed him, and once more descend to his natural level: for within these walls, endeared to him by so many recollections, he found it impossible to support a new character, and he must be permitted to address the Association only as an old Member of Trinity College. In that capacity he rejoiced to see them, because it was a high honour to receive such an assembly as was present within the College walls—he rejoiced to see them, because he thought that their presence would be a strong motive to perseverance in those studies in which in ancient days their body had been nobly distinguished, and in which many of its living Members were still making an honourable progress. They were assembled that day in a noble palace, consecrated by their ancestors to science and good learning; within

the walls where Bacon had first seen his visions of coming Philosophy, and where Barrow and Newton had passed the greater part of their glorious lives. They were assembled in a Hall decorated by the figures of the illustrious dead, whose names were stamped on the ever-living tablets of man's history—they were met at the table where those men met before—they had heard the anthem which had once been heard by them, and every thing around them was made holy by the remembrance of departed genius. He should think ill of the Members of the Association, if recollections such as these, could be allowed to pass through their minds, without producing some intellectual movement—some inner aspiration after what was great and good. With this consciousness (unless indeed they had the humiliating belief of being a progeny unworthy of such a noble ancestry) the Fellows of Trinity College might well feel a sentiment of pride (so far as such a sentiment could be admitted by Christians without sin) in thinking of the place, and the circumstances, under which they had the honour of entertaining the Members of the British Association.

He dared not any longer trust himself with topics such as these. He wished to cast from him every feeling of pride, and speak to them as a plain and humble man, and tell them all how cordially he rejoiced to meet them; and how much, along with every other Fellow of the College, he felt delighted and honoured by what was now passing before him. Before he sat down, he could not but revert with grateful expressions to a similar entertainment given them last year by their hospitable friends at Oxford; and he would follow up their tribute of remembrance, by giving the health of their late President, Dr Buckland, in which he doubted not they would all enthusiastically join him.

Dr BUCKLAND rose and said, that his excellent friend had imposed on him the gratifying duty of returning his most sincere acknowledgments for the compliment he had been pleased to pay him individually, as well as to the University to which he belonged. For himself and in the name of the University of Oxford, he had to express his best thanks. He appeared before them in the humble capacity of an individual who had just resigned that honourable office to which his friend had been elevated: and during whose continuance in this office, he looked forward to a still more abundant intellectual harvest than had been reaped by a smaller band of labourers last year at Oxford. He would proceed to another subject in which he was sure he was anticipated.—It was impossible that any individual could be sitting at that splendid banquet without feeling his heart gratified with the kindness that had been shewn to the British Association by the Master and Fellows of Trinity College. He felt placed in a situation in which he had never before stood—he was surrounded by the illustrious dead and by the illustrious living—time would fail him to attempt to record the various merits of the illustrious dead with whose pictures that Hall was surrounded; but he saw around him also the illustrious living to whose bounty they owed the repast then before them, and among these illustrious living he could point to a Sedgwick, a Peacock, and a Whewell. His brother Professor had anticipated him in mentioning the names of other individuals then before him. On Tuesday they had been delighted by hearing the history of falling stars—the names he had alluded to must be reckoned amongst rising stars, stars

which had not yet approached their zenith—and the time would never come when they would cease to illuminate the civilized world. He begged to conclude by proposing that they should drink health and prosperity to the Master and Fellows of Trinity College.

The VICE-MASTER said, he rose with feelings of no ordinary emotion in the name of himself and the Fellows of that College, to return their grateful thanks for the kindness with which the Members of the Association had received the wish for their prosperity. It would be at all times a difficult task to return thanks for such kindness, but on the present occasion that difficulty was increased from the recollection of the place in which they were assembled, and from the different associations which presented themselves—it was difficult to know where to begin or where to end. In speaking of the existence of the Association itself it had been said that the ingenious Cowley had formed a plan of an Association not very dissimilar to that which they had the honour that day of receiving; but from the evil aspect of those times it was scarcely possible that he could have indulged a hope of ever seeing such a design realized. If they ascended to the time of Bacon, the prospect was not much more cheering, and even his prophetic mind must have looked forward to such a consummation rather with the eye of hope than of expectation. For there was then an anxious jealousy among men of science, and an unworthy estimation of each other's merits. This jealousy was the mischievous heirloom of the old school of alchemy, but that school, with its jealousy and avarice, had, he trusted, vanished for ever. He could not but remark how unlike such feelings was the liberal and diffusive spirit of the present Meeting. He begged to return his hearty thanks for the kindness with which they had received the wishes of their friend.

The VICE-MASTER again rose and said, he had a toast to propose in consequence of seeing the Provost of the University of Dublin near him. He believed with respect to those kindred institutions, that they were engaged very much in a similar work, and he hoped they were all actuated by the best motives to discharge their duty as well as they could. He was persuaded they were all urged on by the same spirit, and though there might be a difference in their institutions such as to give an individuality of character to each, yet he believed there was amongst all of them that family likeness

——— *Facies non omnibus una,
Nec diversa tamen, qualis decet esse sororum.*

He then proposed the health of the Provost of Trinity College, Dublin.

The Rev. Dr LLOYD returned thanks.

Professor SEDGWICK stated that he was compelled to announce that if they intended to do their duty, and do it they would, they must shortly leave that Hall. Having stated thus much, it was now his duty to give the health of a nobleman sitting on his right hand, and he mentioned that nobleman's name first because he was the first President of the Association. Some of them might perhaps little understand the services rendered by their first President. But they must remember that he attended their first Meeting, gave them the influence of his name, and the advantage of his co-operation, before their laws were framed, and

before they had assumed the substantial form of organization. He had lent a helping hand in time of need, and had not once despaired of their future fortunes. Were he to express on this occasion the warm feelings he personally entertained towards their first President, he might perhaps offend his noble friend; but he should not make the attempt, and time indeed did not suffice for it. He should therefore content himself with giving the toast, at the same time stating that his noble friend had shewn his unbounded zeal for the promotion of science, by attending all the meetings of the Association, and by most kindly and frankly co-operating on every occasion with its members. He therefore most cordially proposed the health of the Earl Fitzwilliam, their first President.

The Earl FITZWILLIAM in rising to return thanks said, he was sure it was not necessary he should state to them that to have his health proposed and so received at a Meeting of that Association assembled in that Hall was an honour he could not have anticipated—it was one however which he greatly prized and for which he begged they would receive his most sincere thanks. His Rev. friend who had proposed the toast had stated as the ground of his proposing it, that he had been the first President of that Association. They knew well that he owed that to no merits of his own, but to the circumstance of the first idea of such an Association having been conceived still further to the North, and having been matured in that part of England with which he was most connected. It did so happen, from that accidental circumstance, he had been called upon to fill the chair—and he could assure them that on all the occasions of their meeting, and particularly on the present one, it was an accident to which he owed much happiness. His friend seemed desirous to have been gifted with three tongues in order that he might have expressed his feelings on this occasion; he had told them that he had but one; but he (Lord Fitzwilliam) would tell them *that* one was equal to any three he could have obtained from any other quarter—The applause which his friend had received was not so much due to his eloquence, or to the value of his science, as to that singleness of heart which he possessed—and if there was any value in that quality he would only say, that he hoped he should always be desirous of promoting their interests with that same singleness of heart. In addition to that expression (of the President) there was another put in parenthetically, but it was a parenthesis of the greatest importance, and one to which he hoped he might not improperly call their attention. He had said it might well fill a man with pride to be present on such an occasion and in the situation in which he was placed—but then he had put in that important parenthesis, “so far as he might feel pride without sinning.” The Noble Earl hoped he was not acting improperly in calling this to their minds, and not only that expression, but also a remarkable passage in the Report of Professor Whewell, in which he had stated in language so peculiarly his own and so powerful—that it was impossible for a man who reasoned aright to be filled with pride by any of the achievements of science. It had been his intention to have proposed the health of the Provost of Dublin, but as he had been anticipated in that desire, he hoped they would think his toast not unworthy of them if he proposed the health of another distinguished individual, Mr Davies Gilbert.

Mr DAVIES GILBERT said, that some gentlemen had stated that they had been taken by surprise—he was sure he was, for he had not the slightest idea that he should have been called upon. He could not attribute it to any merit of his own, but to his having been President of the Royal Society. As he had referred to the Royal Society, he would just say that in the early part of its history it combined all the different subjects in the great field of science, but as those subjects increased, great benefit had been derived by means of sub-divisions, and the Society had gone on without the slightest degree of envy or jealousy. He had witnessed the meeting at Oxford, and he was quite sure that whatever part Oxford had taken, Cambridge had performed its part in a manner equally deserving of their gratitude. He begged to return them his best thanks.

Dr BUCKLAND begged to crave their attention to a toast which he was sure would be received with joy by every member; for he wished to propose the health of a noble lord who had been an ardent supporter of this Association, the Marquis of Northampton. He had peculiar pleasure in proposing that toast because it was many years since he had the honour of serving under his lordship's banners, when he was engaged in promoting that branch of science to which he had most attended, in the discharge of his duty as the President of the Geological Society of London. Since that period his lordship had not been forgetful either of the interests of that Society or of other Societies established in this kingdom for the promotion of those discoveries in which they were severally interested. His lordship had ever travelled with his hammer in his hand and his microscope at his eye—he had traversed the fields of Germany, France and Italy, and had brought home with him and lodged in his museum the fruits of his diligencce. Of his zeal in promoting the welfare of this Society they had abundant proof by his attendance at Oxford, and also on the present occasion; if there was any individual who for his zeal and activity deserved such a token of respect, that individual he conceived to be the noble lord whose health he had the honour of proposing.

The Marquis of NORTHAMPTON rose, he said, with excited feelings to return thanks for the honour they had done him. It was now upwards of twenty years since he was a resident within these walls, a period of time during the lapse of which it might be allowed to a man to forget many things; but no one could forget the happiness enjoyed during the time he was in that College. He for one had not forgotten it, and it was a great pleasure to him to meet again so many of the most revered and respected friends of his youth. If that were a pleasure under ordinary circumstances, it was peculiarly so when he met men assembled on such an occasion as the present—not merely as philosophers, but as men who loved and were willing to search for truth. They did so in every capacity—morally and religiously. They felt that what was truth could not be otherwise than right; and therefore that it was the interest of all that truth should be pursued: and good of every kind would be promoted by those who sought for truth in singleness of heart. It was delightful not only to meet with so many Cambridge and Trinity friends, but to have the happiness of meeting those who belonged to other parts of the kingdom. He would now propose a toast which they would all drink with pleasure—it was the health of an individual who had made himself

most illustrious in this University—of one destined to go down with glory to posterity—to make a name more illustrious which was illustrious before, he meant Sir John Herschel. That illustrious individual was about to carry the name of his Father, of his Country, of his University, to the other side of the globe. He was sure therefore they would gladly avail themselves of the opportunity of drinking him a happy and prosperous voyage to the Cape of Good Hope.

The toast was drunk with great applause.

Sir JOHN HERSCHEL said, that since he first formed the plan of visiting the other hemisphere, he had frequently been led to wish that the design had been executed as soon as conceived. Between the acting of a dreadful thing, it had been said, and the first notion, all the interim is like a phantasma or a hideous dream: and though his undertaking was not to be called a dreadful thing, he could sometimes have wished that the interim of suspense had been annihilated. But now, under the feelings which he then experienced, and receiving such a testimony of the good will of those there assembled, combined as it had been with the mention of his purpose, he could almost wish that this interval might be eternal. He thanked them for the honour they had done him, and should ever love the memory of their kindness.

Professor SEDGWICK rose with some reluctance, because this was the last toast he was that evening permitted to give. In the first place, let him say that the only circumstance he had to regret that day was the remote region in which Sir J. Herschel had placed himself (*he was at the lower end of the Hall*), he seemed already gone half way to Cape-town.—The gentlemen of that Society had intended to do him all the honour they could, and his allotted place was at the higher table, by the side of Professor Babbage, Professor Airy, and Mr Lubbock. Let him however place himself where he might, where *he* sat was the honourable part of the room. Had time permitted, he should have alluded more particularly to Professor Babbage, Mr Lubbock, and Professor Airy, who sat opposite him; with a view perhaps of inducing them to throw their light upon this festive meeting. He should have wished to have proposed the health of many other distinguished men—He should have dwelt on the labours of Mr Vernon Harcourt, who in framing the regulations of the Association and giving it its first movement, had done incomparably more than any other Member. He should not have passed over the great merits of Mr Phillips of York, their Assistant Secretary; than whom, in the departments of science he had cultivated, there was not a man who had done better service. He should have spoken also of the intuitive genius of Sir D. Brewster, who was the first to proclaim the importance of a philosophic combination like that assembled; and again he should have spoken of the two Cambridge Secretaries, who were as his right arm and his left,—of the Presidents and Secretaries of the Sections, who formed the most powerful levers of their strength, enabling them to work a mighty engine containing many independent movements, yet capable of being locked together, and of producing, by the combined action of its parts, the effects of one simple and powerful mechanism. It was not, therefore, from the want of matter that he was about to quit the Hall; but from the pressure of business which summoned them to the Sections. There was how-

ever one toast he must give, and before he gave it, he must mention a suggestion of the Vice-Master, who whispered in his ear, that when he (the Professor) and other officers of the Association left the room, it was no reason why lovers of social feeling and good cheer should not still continue to rally round their Chairman. The toast he had to propose was, the health and happiness of those distinguished Foreigners who had honoured the Association and the University with their presence.

He remembered the day when an Academic body was considered by many (he believed mistaken) writers as something coiled up in a corner, and incapable of expansion. Now, however, their coils had become sufficiently expanded, and were wound about almost every subject, whether physical or moral, worthy of philosophic speculation; and their body had all the pliability which was compatible with health and strength. Their having communication with foreign gentlemen was of inestimable advantage to all learned bodies. In using the word foreign, he was only using a geographical term; for they held no man to be a foreigner, except one who did not participate in the sentiments which had brought this assembly under one roof. Every man there, whatever might be his country, who shared in their feelings, was regarded by them as a brother. He would not specify names; perhaps it would be invidious to do so.—A most distinguished French Geologist was there, now employed, with other fellow labourers, in preparing a geological map of France. His visit was peculiarly grateful to him (Professor Sedgwick), especially as that gentleman had been among the persons who had served a hard campaign in mastering the secondary geology of England. He alluded to him first, only to gratify his own private feelings. There were among them, a distinguished Astronomer, deputed by the Belgian Government to attend their Meeting; a learned Botanical Professor from Sweden; and several other illustrious strangers, whom it was their honour and happiness to meet; but above all he rejoiced at the presence of several learned and scientific gentlemen from the other side of the Atlantic. But, added the President, we cannot speak of them as strangers, for they are of our own blood and kindred. The ties by which our country was once united to theirs, were severed by a rude hand; and bitter feuds arose—unfortunately the more bitter, because they were domestic. But the clouds which for a time obscured the social relations of the two countries have long since passed away; and there is not now within these realms a man of common feeling and of common sense, who does not regard the gentlemen of the United States as his brethren, and who would not greet them on all occasions (as I am certain every man here present does greet them) with a fraternal and most hearty welcome.—Professor S. then concluded by repeating the toast he had before mentioned, which was drunk with enthusiasm.

Dr HARLAN, of Philadelphia, returned thanks; and proposed, “The great Republic of Literature and Science throughout the world.”

The VICE-MASTER begged to repeat the toast—“The great Republic of Literature and Science throughout the world.”

MONS. QUETELET, MONS. DUFRENOY, and other foreigners, returned thanks in French; but the reporter was not able to follow them with sufficient distinctness to report correctly what they said.

The health of the Vice-Master was again proposed.

The VICE-MASTER said he did not expect again to be called upon, nor was he prepared for this grateful expression of their kindness. He was overpowered, and could not give utterance to what he wished to say, but most sincerely did he thank them.

The Meeting then separated.

In the evening, at half-past ten o'clock, there was a splendid display of Fire-Works in the grounds belonging to King's College. These were arranged under the superintendence and management of Mr Deck, Practical Chemist, of Cambridge.

THURSDAY.

At a Congregation at ten o'clock, the following Noblemen of the University were admitted to Honorary Degrees:

Earl Fitzwilliam, LL.D. Trinity College.
 Sir Charles Lemon, M.A. Trinity College.
 Sir Thomas Macdougall Brisbane, M.A. Trinity College.
 *Sir David Brewster, M.A. Trinity College.

At the same time the undermentioned Gentlemen were admitted to *ad eundem* degrees:—

Viscount Morpeth, M.A. Christ College, Oxford.
 Viscount Sandon, M.A. Christ Church, Oxford.
 Viscount Adare, B.A. Trinity College, Dublin.
 Rt. Hon. Sturges Bourne, M.A. Christ Church, Oxford.
 Sir Thomas Dyke Acland, M.A. Christ Church, Oxford.
 Sir John Mordaunt, M.A. Christ Church, Oxford.
 William Buckland, D.D. Christ Church, Oxford, Professor of Geology.
 Barth. Lloyd. D.D. Prov. of Trinity College, Dublin.
 T. R. Robinson, D.D. Dublin, Professor of Astronomy at Armagh.
 Davies Gilbert, LL.D. Pembroke College, Oxford.
 Rev. Dionysius Lardner, LL.D. Dublin.
 James Macartney, M.D. Trinity College, Dublin, Professor of Anatomy.
 Baden Powell, M.A. Oriel College, Oxford, Savilian Professor.
 Rev. Humphry Lloyd, M.A. Trin. College, Dublin, Prof. of Mathematics.
 Wm. R. Hamilton, B.A. Trinity College, Dublin, Astronomer Royal.
 Wm. E. Hony, B.D. Exeter College, Oxford.
 Joseph Sabine, M.A. Trinity College, Dublin.
 Philip Bury Duncan, M.A. New College, Oxford.
 Rev. Wm. Vernon Harcourt, M.A. Christ Church, Oxford.
 Chas. John Laprimaudaye, M.A. St. John's College, Oxford.
 Robert Walker, M.A. Wadham College, Oxford.
 Joseph Stroud, M.A. Wadham College, Oxford.
 Charles Wordsworth, M.A. Christ Church, Oxford.
 William Palmer, M.A. Magdalene College, Oxford.
 Wm. Robert Browell, M.A. Pembroke College, Oxford.

* This Degree was conferred on Saturday, June 29.

John Wilson, M.A. Queen's College, Oxford.
 Edward Denison, M.A. Merton College, Oxford.
 Frederick Plumptre, M.A. University College, Oxford.
 Jas. Edward Winterbottom, M.A. St. John's College, Oxford.
 Charles Hotham, M.A. University College, Oxford.
 John Forster Alleyne, M.A. Balliol College, Oxford.
 Walter Kerr Hamilton, M.A. Merton College, Oxford.
 R. Bassett Wilson, M.A. University College, Oxford.
 Wm. R. Courtenay, B.C.L. All Souls College, Oxford.
 Charles Lacy, M.A. Christ Church, Oxford.
 William Cureton, M.A. Christ Church, Oxford.

GENERAL MEETING.

The Members again assembled in the Senate House at One o'clock.

The PRESIDENT stated, that the Members were aware that, in addition to the general Meetings, they had five distinct Sections; and the reports of the business transacted in those Sections, had been read to them. Last year at Oxford there had been only four working Sections; but these had been practically found inadequate, and therefore a fifth, devoted to Anatomical and Physiological inquiries, had been added. Those five Sections had now been found insufficient, and he would announce to them the appearance of a new bantling, the offspring of yesterday.—A sixth Section had been formed, somewhat irregularly he must allow, but under the auspices of very distinguished men. He must call upon Professor Malthus or Professor Babbage to explain to the Meeting the reasons and circumstances of this proceeding.

Professor BABBAGE said, they were now asking for a bill of indemnity, for having broken the laws. The Section was formed for the purpose of promoting Statistical enquiries, which were of considerable importance. They had been assisted by a distinguished Foreigner, possessing a budget of most valuable information. He then entered on some details respecting the information given by Professor Quetelet, which the reporter was not able to follow in such a manner as to report correctly.

The PRESIDENT then stated, that a number of gentlemen were candidates to be elected Members of the Association; and he should therefore put the question, whether the Meeting would not at once elect those gentlemen whose names had been enrolled in accordance with the prescribed forms.

The motion was formally made by Dr Buckland, seconded by Mr Taylor, and carried by acclamation.

The PRESIDENT then called upon the Treasurer to give a statement of the financial department of the Association.

Mr TAYLOR read a statement of the Finances of the Society. He further stated, that on the arrival of the Association at Cambridge, their numbers were 688: he was happy to add that during the present week that number had been doubled, as already 689 gentlemen had been elected, making the whole body to consist of 1377 members.

The Report of the Auditors appointed at the preceding Meeting was then read.

The PRESIDENT stated that this was not an account made out in a hurried manner, and produced as a mere matter of form. The accounts had been sifted and carefully examined by a Committee appointed for that special purpose; and the funds had been administered with the utmost care, and with every caution calculated to prevent the possibility of abuse. He should now therefore call for their sanction of the accounts.

This was carried unanimously.

The PRESIDENT took this opportunity of stating to the Society, that a great Meeting of Philosophers would take place at Clermont in Auvergne, on the 25th of August, and that the Geological Section of this Association had been invited to attend it.

Professor HENSLOW said, that the members would recollect that when at Oxford last year they had a holiday, and on that holiday, the Geologists had been invited to make an equestrian expedition with the President, whilst he had himself been permitted to conduct a party of Botanists on foot to Shotover Hill, under the direction of the Curator of the Botanic Garden. There was not time sufficient to allow of a holiday during the progress of the present Meeting, but he would propose to the Botanists, Entomologists, and other Naturalists, who might be inclined to stay beyond Saturday, to accompany him in an expedition down the river in a barge, when he hoped to introduce them to the Fens, where they might possibly find something worth their attention.

The PRESIDENT then called for the Reports from the Presidents of the several Sections.

Professor CHRISTIE read a Report on the present state of our knowledge on the subject of Terrestrial Magnetism.

Mr WHEWELL (in the absence of the Author) gave a summary of the contents of a Report on the present state of our knowledge concerning the Strength of Materials, by Professor Barlow.

DINNER AT ST JOHN'S COLLEGE.

A Dinner was this afternoon given by St John's College to a numerous and distinguished party of the Members of the Association; but of which, as the reporter was not present, no detailed account has been preserved.

THURSDAY EVENING.

A very large Meeting took place in the Senate House this evening, at half-past nine.

Mr WHEWELL gave an explanation of the mode in which Observations of the Tides may be combined into a general view. He stated, that such Observations may be of use in two ways. Observations of the time of high-water at different places on the same day, may serve to determine the motion of the summit of the *Tide-wave*, or that elevation of the waters which brings high-water to all parts of the ocean in succession. He stated, that persons residing at moderate distances from

each other upon the coast or upon the banks of a tide-river, may, by comparing their watches and noting the time of high-water at each place, determine the rate at which the tide-wave travels in that part, as readily as they can determine in the same manner the speed of a stage coach which passes their door. He observed also especially on the necessity of distinguishing this motion of the elevation of the water, from the tide-stream, or motion of the water itself. Mr Whewell further explained the mode in which Tide Observations, continued for a considerable period, and compared with the Moon's transit, give the semi-menstrual or half-monthly inequality. He observed, that it appears from Mr Lubbock's recent researches on the subject, that the tides of Portsmouth and Brest agree very closely in the law of this inequality, and that the tides of Plymouth and London also agree; but that there is an anomaly which cannot at present be explained in the comparison of Brest with Plymouth.

Professor FARISH addressed the Meeting on the power of Steam as applied to Carriages; contending that it might be more efficaciously employed upon undulating roads than upon level railways.

The Meeting was adjourned at half-past eleven to One o'clock on Friday.

GENERAL MEETING. FRIDAY.

At one o'clock the Association assembled for the last general Meeting: the Meeting was larger than any that had taken place during the week.

Notice was given, that a large party of Naturalists would start the following morning on an excursion to the Fens.

The Presidents of the Sections read their Reports.

Mr CHALLIS read a Report on the Theory of Fluids.

The PRESIDENT mentioned that since yesterday three other gentlemen had enrolled their names as Members, namely, Dr Chalmers, Professor Jameson, and Dr Henry, sen.

The PRESIDENT then stated that it was his duty to announce, that the Meeting for 1834 would take place at Edinburgh, in the month of September, most probably in the early part of that month. With some distinguished Philosophers of that city the idea of establishing the Association had first originated. The city was in all respects well fitted to receive them—a glorious capital, in a region abounding in objects interesting to men of science—containing within its walls a celebrated University, and a large body of excellent practical men, ready to co-operate with them vigorously in carrying on the work for which they were associated. Nor was it to be considered a small advantage, that, when there assembled, they would be within a very few hours distance of one of the most important commercial and manufacturing cities of the empire. In giving this notice, in behalf of the General Committee, he wished it to be distinctly understood, that they did not in any respect wish the Association to be considered as an academic body, but as a great scientific republic; and their sole object in fixing on the capital of Scotland for the next meeting was their belief, that in so doing they were not only best consulting the general good of the body they represented, but paying back, as far as they were able, a debt of gratitude to some distinguished men whom they

honoured as their founders. The President mentioned that handsome proposals had been received inviting the Association to Bristol, Birmingham, Liverpool, and Newcastle-upon-Tyne.

Professor BABBAGE said he should wish the next meeting to be in a large manufacturing town.

The PRESIDENT replied that the place had been selected after due deliberation, by the General Committee, in whom, by the construction of the Association, the power of making the selection resided. They had a long list of places, to all which they hoped to go in turn; and in the selection they had made, they had decided as they thought for the best.

Professor BABBAGE was of opinion that the Committee had not had sufficient notice, considering the importance of the question to be brought before them.

Dr CARPENTER thought sufficient notice had been given. He had, as one of the delegates from Bristol, been very anxious that the next meeting should have taken place in that city; but after what he had heard in the Committee, he frankly confessed he was unable to advocate its being in any other place than Edinburgh.

The PRESIDENT proceeded to read a list of the Officers appointed by the General Committee for the next year:

President Elect—Sir T. M. BRISBANE.

Vice-Presidents Elect—Sir DAVID BREWSTER.

Dr ROBINSON, (of Armagh).

General Secretary—Rev. W. V. HARCOURT.

Assistant Secretary—Mr JOHN PHILLIPS, (York).

Treasurer—Mr JOHN TAYLOR.

Secretaries of the Council—Dr TURNER.

Rev. JAMES YATES.

Secretaries for Edinburgh—Mr J. ROBISON and Professor FORBES.

Dublin—Professor LLOYD and Mr LUBY.

Oxford—Dr DAUBENY and Professor POWELL.

Cambridge—Rev. W. WHEWELL and Rev. Professor HENSLOW.

The PRESIDENT said, he must state that their newly elected and distinguished President Sir T. M. Brisbane, was the President of the Royal Society at Edinburgh, and therefore the Monarch of Science in that Capital. He had been proposed to the Committee by Sir David Brewster, and had been chosen only for his high merits. He (the President) had not the honour of being an intimate personal friend of Sir T. Brisbane, but he had experienced his kindness and courtesy, and marked his high bearing and gentlemanlike presence; he knew that he had fought the battles of his country, in the hour of need; and that while he was Governor of a distant settlement, he had erected and carried on the work of an Observatory at his personal cost—offering an example of devotion to science, perhaps unrivalled in the history of the great colonies of this country.

The PRESIDENT then read the names of those Gentlemen who constituted the Council, and the recommendation of the Committee for the appropriation of sums amounting to £600. to be applied to the promotion of certain scientific objects, which were specified, and the account of which will appear in the Annual Report.

Mr BABBAGE, being called upon by the President, explained his views respecting the importance of making a collection of the Constants of Nature and Art, and the method in which it should be made. A printed statement on this subject was presented and circulated.

Mr BRUNEL stated, in a short address, how grateful the Foreigners present were for the kind attentions which they had received.

Earl FITZWILLIAM then rose, and addressed the Meeting. He was sure there was not an individual within those walls, who, now that the more important business of the day had been concluded, would not think that they should act with ingratitude towards those by whom they had been so courteously received, if they left that room without expressing their warmest thanks. Indeed it was unnecessary for him to state, that the University of Cambridge had received this Association with open arms, because all present had every day experienced fresh proof of their kindness and attention.

If, in this, which he would call the popular branch of the Association, he might be permitted to state his opinion, from the experience which they had had during that meeting—he would say, that it was not desirable to repeat the experiment of laying before a varied audience those more abstract speculations, which were better fitted for the Sections, and where they would produce their proper effect. He should say it was desirable, that in the popular branch of the Association, those topics should be dwelt upon which were more suited, he hoped he might say without offence, to the minds of those who came to assemblies of this kind, not bringing much of science themselves, but desirous to promote science in others. He took the liberty of saying this, because he knew that the more active members of such an Association, who were gifted with great knowledge themselves, were from that very circumstance less capable of seeing this truth—that the abstruser points of science were not well suited to a general assembly. It appeared to him, that the great object of this Association was to incorporate a love of knowledge with the very frame of society in this country. He would say, the true value of the love of science was the love of truth—there was nothing more important than to make the love of truth part of the life-blood of the country; and the most important truth of all was, to shew that whatever our advancement in knowledge might be, the things which were not known were as infinity when compared with the things which were known.

Might he be permitted to add one word more, he would address them and the University of Cambridge, not in his individual capacity, but as having been by accident the first person who had been placed in the Chair of that Association. He hoped he might without offence avail himself of that opportunity of expressing the gratification he felt at now being able, when speaking of the University, to use the first instead of the third person. He knew that the University must have conferred the honour of a Degree upon him not for any merits of his own, but in consequence of his being among them on this public occasion. He had stated the difficulty which unlearned persons felt in appreciating the higher branches of science, and he spoke with feeling, because he himself was not ashamed to state his inability to comprehend those higher investigations. If he valued the honour

which had been now bestowed upon him, he must have leave to say, that he should infinitely more have valued the gift, could the University of Cambridge, instead of investing him with the gown, have invested him with the power of appreciating the important matter of the Reports to which he had alluded. One of the great misfortunes of his life was, that he was no Mathematician; and if there should be within those walls any of the younger Members of this University, let him, as having had some experience of a practical life, exhort them to gain that knowledge, of which he had constantly to lament the want. He would not detain them longer, but he was sure they would all unite with him in expressing their thanks to the Vice-Chancellor and the authorities, for the manner in which they had been received, and more especially within the walls of that place, in which they were assembled.

Sir DAVID BREWSTER begged leave to second the motion.

The PRESIDENT then put the motion, which was carried.

The Rev. W. SCORESBY said, that the vote of thanks which he had to propose would recommend itself sufficiently to the Meeting by the mere announcement of it. It was addressed to an individual and to a body of individuals closely connected with the Association. With respect to the individual, it was enough to mention the name of their late distinguished and eloquent President, Dr Buckland. Conjoined with his were those of the other retiring Officers and Members of the Council. The time had been when a distinguished Commander of the Navy had put forth the words which had rendered his name immortal—he had said that, “England expected every man to do his duty.” That sentiment had been felt by those who had officiated in the Council of this Society, and they had done well their duty. He proposed that the thanks of this Society should be offered to the late President and the retiring Officers and Members of the Council.

Professor BABBAGE was happy in being allowed to second such a motion. Having himself gone through the duties of some of those Offices in other Societies, he was aware of the great amount of time and labour which the performance of them exacted.

The motion was then put and carried.

The Marquis of NORTHAMPTON said he could introduce his motion by no better preface than in congratulating the Meeting on their present prosperity.—It was a proud thing to see the state in which they were. It was matter of congratulation that an Institution which had existed only three years should number among its members nearly every distinguished man of science in the country. It was matter of great congratulation to him to see not only persons belonging to this country, but many distinguished foreigners who had honoured them by their presence on this occasion, and he could have wished they had been more; there were however many more than had attended the Meeting last year.

They had all heard of such a thing as a natural enemy, but he trusted that those three great powers, Commerce, Science and Religion, would at length unite all men in one common fraternity; men were made to assist each other, and our Religion taught us to love our neighbours. (*Applause.*) To those foreigners who

were present he would say that they might take home these words with them as expressive of the sentiments of Englishmen; and he hoped that the words 'natural enemy' would be no more heard of. His noble friend had observed most truly that one great object of science was to teach a man his ignorance. A person living in a vale might suppose he had the whole world before him, but when he ascended the mountains he saw countries and worlds he knew nothing of before—he saw other and higher mountains above him—and if he should be tempted to extend his knowledge and climb those other mountains he would still see another horizon and would never find a limit. Such was science—it was infinite, and at once a proof of our own feebleness and of the boundless power of the great Master of the universe. *Perhaps*, however, this was a consideration too solemn to dwell on in that place. There were those who supposed knowledge was an evil—like every thing else that was good it might become an evil by being abused. But when they pursued science with a view to improve that intellectual power which had been given to man for the purpose of improvement, they were then merely fulfilling the commands of the Almighty, and acting agreeably to his will. He addressed them not merely as a Member of the Association but as a Master of Arts of the University of Cambridge, and in that capacity he rejoiced in the institution of the Association. It had been said that many young men either studied nothing at the University, or that if they did, when they went away, they forgot it all. He did not believe that this was true—but at the same time it was most true that a great many who had studied there did not afterwards persevere in increasing their knowledge; and though they might have laid the foundation deep and strong, yet they never afterwards raised a superstructure worthy of it. He believed the meetings of the Association would tend to correct this evil, and make all those young men who had seen the interest it excited anxious to turn their knowledge to a good account, to the advantage of their neighbours, and to the honour of their country. After these observations he felt he should do wrong if he detained them longer.

The resolution he had to propose was, That the thanks of this Association be presented to one who had so greatly furthered its interest during the present Meeting, to one who had been their Autocrat. He, the noble Marquis, thought the person of whom he spoke had done his duty nobly. If there was any fault to be found with him it was that he had been too little of the tyrant; he had done his best however to keep them in order, and had shewn them the intelligence of his mind united with that kindness of heart which so distinguished him—he would call upon the Meeting to return their thanks to their President Professor Sedgwick for his conduct in the chair.

The Rev. Dr LLOYD, Provost of Trinity College, Dublin, rose to second the motion. He said it would be paying them a bad compliment were he to suppose them capable of being elevated above their present feelings by any thing he had the power of addressing to them: he should therefore content himself with merely seconding the motion of the noble Marquis.

The Marquis of NORTHAMPTON then put the motion, which was carried with loud cheers.

The PRESIDENT rose and said, he should be utterly unworthy of the kindness he had experienced, could he listen with a soul unmoved to such sentiments as had been expressed by his noble friend, or could he receive such gratulations from the assembled Association, without being overcome by them. He could only say he felt all he ought to feel, and he would leave the Meeting to judge what those feelings were. Before he went on to other subjects connected with the occasion—the last occasion of addressing them in that room—he would call their attention to one topic to which he attached great importance, especially after the discussions that morning. He wished that he had entered on the topic earlier in the week, when he could perhaps have done so with more calmness: he wished to speak of the constitution of this Association, and to recommend, to the utmost of his power, a rigid adherence to its principles. They were organized under a President, whose duty it was to occupy the chair he now filled—he would not say unworthily, because they had said the contrary. They had also a General Committee for carrying on the business of the Annual Meetings; and in the intervals between their annual meetings, they had a central Council, which might be in some measure regarded as their executive body. The composition of their General Committee was a matter of most vital importance to the honour and to the very existence of the Association. In what way, then, was it composed? Every author of a Memoir published in the Transactions of any Philosophical Society of the Empire claimed his seat in the Committee as a matter of right. Their patent of nobility was the proof of personal service; and if the noble Marquis who had just sat down, had a seat in their council chamber, it was only because he had reaped laurels with his own arm in the field of science. Nor was this all. Each provincial Philosophical Society (and how many there now were he need not tell them) had the right of sending two Delegates, who took their seat in the Committee as the representatives of their respective bodies: and it must be obvious that such Delegates would be, in general, not merely men of science, but men of business-like habits. He could not conceive a better constituted body for governing the Association. Each member had a personal interest, not only in the well-being of the Association; but, what was of far more importance, in keeping it to the precise work for which it was first organized. While under such government, it was impossible it should receive an impulse in one direction rather than another, so as to be forced out of the track in which it was now so honourably advancing. They were held erect by many balances—they were secured from falling by many antagonist forces—they had an enduring principle of action—their General Committee was their fly-wheel, or rather their main-spring, to keep the great intellectual machine in its proper movement. All their work was in strict subordination; and it was one of their highest duties to be subordinate. The General Committee was their governing body; and while its organization continued what it was, it was entitled to their utmost confidence. That confidence had been most honourably given; and, as a natural consequence, the business of the Association was going on, not merely in the right direction, but under the impulse of an active and commanding spirit.

In order to carry on the work of the Annual Meetings, the first business of the General Committee was to complete the organization of the Sections. Each

Section had its Head—its Despot in points of order. But these Despots were held in fetters—fetters of judgment—of principle—of public opinion, stronger than themselves. They were paramount in points of order; but existed only by the appointment of the Society, and were subordinate to its rules. These Sections under their respective Heads had the power of acting, in some measure, independently of the parent body; but they acted for her, as dutiful sons, and not against her. They went forth as labourers to gather fruits in the neighbouring provinces; and they returned laden with spoils, and poured into her bosom the whole harvest they had reaped. With the consent of the General Committee, and as an arrangement among themselves for the advancement of their special labours, the Sections might become further subdivided. But let him not be misunderstood. No man had a right to unfurl his standard on a hill, and say, “Here I will take up my position; let others come and join me.” Such a man would be a rebel against their laws; not a philosopher on their principles of association. He was guilty of high treason against that great assembly; for he not only did not act in concert with them; but in setting up an independent authority, he risked the destruction of a constitution, most essential, he (the President) believed, to the well-being of the Association.

He had the day previous announced the formation of a new Section, for the promotion of Statistical Inquiries; which had originated with the distinguished Professors Malthus, Babbage, Jones, and Quetelet. From the first, he had no doubt that Statistical inquiries might be legitimately embraced by the Association; and when he was made acquainted with the combination of such eminent men, he could only say to them, Go on and prosper—he could only do his best to have this new branch engrafted on the stem of the Association. He acknowledged, however, that the announcement by himself yesterday was altogether out of order; and had been made, partly because he had been taken by surprise, but chiefly out of respect to the great names he had just mentioned. But when the Report of this new self-formed Section was put into his hands this morning in the Senate House, in order to its being read before the assembled Association, he found he had a difficult task to perform—and he resolved not to receive it; lest by so doing he should establish a very bad precedent, and risk the integrity of the constitution he had just now so heartily commended. This Report he had, therefore, sent back to the General Committee, which would re-assemble that evening. He had little doubt that the new Section (perhaps after some limitation as to the specific objects of its inquiries) would be recognized by the Committee, and in that case it would become a legitimate member of their body, and its proceedings would appear as a matter of course in their Annual Report.

Some remarks might be expected from him in reference to the objects of this Section, as several Members might perhaps think them ill fitted to a Society formed only for the promotion of natural science. To set these doubts at rest, as far as he was able, he would explain what he understood by science, and what he thought to be the proper objects of the Association. It was long since he had been habituated to mathematical distinctions or logical definitions; but he would try to express himself as clearly as he could. By science then, he understood the consi-

deration of all subjects, whether of a pure or mixed nature, capable of being reduced to measurement and calculation. All things comprehended under the categories of space, time, and number, properly belonged to its investigations; and all material phenomena capable of being brought under the semblance of a law were legitimate objects of its inquiries. But there were many important subjects of human contemplation which came under none of these heads, being separated from them by new elements; for they bore upon the passions, affections, and feelings of our moral nature. Most important parts of our nature such elements indeed were; and God forbid that he should call upon any man to extinguish them; but they entered not among the objects of the Association. The things with which they had to do, were the laws and properties of matter, and with those alone; the nature of the human mind was utterly beyond their province; the sciences of morals and politics were elevated far above the speculations of their material philosophy. Could statistical inquiries, then, be made compatible with their objects, and taken into the bosom of their Society? He thought they unquestionably might, so far as they had to do with matters of fact, with mere abstractions, and with numerical results. Considered in that light they gave what might be called the raw material to political economy and political philosophy; and by their help the lasting foundations of those sciences might perhaps be ultimately laid. These inquiries, however, it was important to observe, were most intimately connected with moral phenomena and economical speculations—they touched the mainsprings of passion and feeling—they blended themselves with the generalizations of political science: but when they entered on these higher generalizations, that moment they were dissevered from the objects of the Association, and must be abandoned by it, if it meant not to desert the secure ground which it had now taken.

Should any one affirm (what, indeed, no one was prepared to deny) that all truth had one common essence; and should he then go on to ask why truths of different degrees should be thus dissevered from each other, the reply would not be difficult, and had indeed, in part, been already given. In physical truth, whatever were the differences of opinion, there was an ultimate appeal to experiment and observation, against which passion and prejudice had not a single plea to urge. But in moral and political reasoning, they had ever to do with questions, in which the waywardness of man's will and the turbulence of man's passion were among the strongest elements. The consequence it was not for him to tell. Let them look around them, and they would see the whole framework of society put in movement by the worst passions of our nature; they would see love turned into hate—deliberation into discord—and men, instead of mitigating the evils that were about them, tearing and mangling one another, and deforming the moral aspect of the world. And let not the Members of the Association indulge a fancy, that they were themselves exempt from the common evils of humanity. There was that within them, which, if put into a flame, might consume their whole fabric—might produce an explosion, capable at once of destroying all the principles by which they were held together, and of dissipating their body in the air. Their Meetings had been hitherto essentially harmonious, only because they had kept within their proper boundaries, confined themselves to

the laws of material nature, and steered clear of all questions, in the decision of which bad passions could have any play. But if they transgressed their proper boundaries, if they went into provinces not belonging to them, and opened a door of communication with the dreary wild of politics, that instant would the foul Demon of Discord find his way into their Eden of Philosophy. Differing as men do, and probably ever will do, on questions where the passions are concerned—regardless as they are of the principles and honour of fair discussion in questions of party—seeing them (as is found in the literature of every day) ready to commit acts of the fiercest moral violence one against another—with facts like these before their eyes, could they (the Association) for a moment doubt, that if they violated the principles which then bound them together—that if they deviated from the track laid down for them by their laws—they were parting with the only elements of their strength, and were committing, if he might so express himself, a philosophic suicide? If there were anything worthy of regard in the authority of the Chair—if there were anything solemn in the sound of parting words—let him entreat them to bear in mind what he had been just saying to them: let them maintain the noble position whereon they now so firmly stood; and resist, to the uttermost, the encroachments of any innovation, which (even by possibility) might have a bearing on bad passions, and might sap their whole strength by destroying their social harmony. In every condition of society there was some bright spot on which the eye loved to rest. In the turbulent republics of ancient Greece, where men seemed in an almost ceaseless warfare of mind and body, they had their seasons of solemnity when hostile nations made a truce with their bitter feelings—sembled together, for a time, in harmony, and joined in the celebration of a great festival; which, however differing from what they now saw in its magnitude and circumstance, was consecrated, like their present Meeting, to the honour of national genius. Whatever were the bitter feelings so often disgracing the civil history of mankind, he dared to hope that they would never find their resting-place within the threshold where that Association met; but that peace and good will, though banished from every other corner of the land, would ever find an honoured seat amongst them; and that the congregated philosophers of the empire, throwing aside bad passion and party animosity, would, year by year, come to their philosophical Olympia, to witness a noble ceremonial, to meet in a pacific combat, and to share in the glorious privilege of pushing on the triumphal car of Truth.

Having spoken of the constitution of the Association, let him say a word about himself. With regard to his duties as their chairman, he had performed them in the best way he was able, and his efforts had been received by them with uninterrupted kindness. He had, indeed, gone through the work of the past week much better than he had himself expected; but this he owed only to the kind support they all had lent him. During nearly three months he had been labouring under a nervous sickness, brought on by excessive labour, anxiously commenced in the hopes of being able to meet with clear hands the duties imposed upon him by this session of the Association. The consequence had been, that he had broken down, and that all the preliminary work of the present Meeting, some part of which ought to have been done by himself, had fallen on the two

Cambridge Secretaries. Only a fortnight since he had dreaded this Meeting; not that he did not anticipate much delight from the concourse of friends whom he loved and honoured—much instruction from the great intellectual banquet that was preparing; but because he was at that time fearful he should crumble under the load they were about to place upon his shoulders. Now, however, their kindness had driven out of him every feeling of discomfort, and he found himself not merely in a state of perfect social happiness, but he might almost dare to say, with strength equal to the duties they had imposed upon him. They would, he feared not, pardon any little errors and informalities committed by him during the session. Perhaps the very infirmities of which he had spoken might not have been without their use; for many of his friends had been trying to fix their drag-chains about him, lest his movements should be unfitted to the dignified solemnity of their Meeting. He had not been addressing them (as perhaps he ought to have done from the chair) in any prepared forms of speech. Such had never been his habit; and had he attempted to do so during the past week, all previous preparation would have been of little use; as the intensity of present feeling, excited each day by what he saw around him, would, like a burning sun, have extinguished the mere twilight of every remembered sentiment.

The last duty he had to perform that morning would be a painful one indeed, were their assembly to be broken up into elements not again to be reunited. The Association was not however dissolved; its meeting was only adjourned to another year. And that morning it had been to him a matter of great joy to announce to them that the Committee had elected for their next President a distinguished soldier and philosopher; and that it would be their glorious privilege to re-assemble in one of the fairest capitals of the world—in a city which had nursed a race of literary and philosophic giants—in a land filled with natural beauties, and wedded to the imagination and the memory, by a thousand endearing associations.

There was a solemnity in parting words, which might, he thought, justify him (especially after what had been so well said that morning by a noble Marquis) in passing the limits he had thus far carefully prescribed to himself, in treading for a moment on more hallowed ground. In the first place he would entreat them to remember that they ought above all things to rejoice in the moral influence of an Association like the present. Facts, the first objects of their pursuit, were of comparatively small value till they were combined together so as to lead to some philosophic inference. Physical experiments, considered merely by themselves, and apart from the rest of nature, were no better than stones lying scattered on the ground, requiring to be chiselled and cemented before they could be made into a building fit for the habitation of man. The true value of an experiment was, that it was subordinate to some law—that it was a step toward the knowledge of some general truth. Without, at least, a glimmering of such truth, physical knowledge had no true nobility. But there was in the intellect of man an appetency for the discovery of general truth, and by this appetency, in subordination to the capacities of his mind, had he been led on to the discovery of general laws; and thus had his soul been fitted to reflect back upon the world a portion of the coun-

sels of his Creator. If he had said that physical phenomena, unless connected with the ideas of order and of law, were of little worth; he might further say, that an intellectual grasp of material laws of the highest order had no moral worth, except it were combined with another movement of the mind raising it to the perception of an intelligent First Cause. It was by help of this last movement that nature's language was comprehended—that her laws became pregnant with meaning—that material phenomena were instinct with life—that all moral and material changes became linked together—and that Truth, under whatever forms she might present herself, seemed to have but one essential substance.

He had before spoken of the distinctions between moral and physical science; and he need not repeat what he had said, unless it were once more solemnly to adjure them not to leave the straight path by which they were advancing—not to desert the cause for which they had so well combined together. But let no one misunderstand his meaning. If he had said that bad passions mingled themselves with moral and political sciences, and that the conclusions of these sciences were made obscure from the want of our comprehending all the elements with which they had to deal, he had only spoken the truth. But still he held that moral and political science was of a higher order than the physical. The latter had sometimes in the estimation of man, been placed on a higher level than it deserved, only from the circumstance of its being so well defined, and grounded on the evidence of experiments appealing to the senses. Its progress was marked by indices the eye could follow; and the boundaries of its conquests were traced by landmarks which stood high in the horizon of man's history. But with all these accompaniments, the moral and political sciences entirely swallowed up the physical in importance. For what were they but an interpretation of the governing laws of intellectual nature, having a relation in time present to the social happiness of millions, and in their end bearing on the destinies of immortal beings?

One word more and he had done. If he looked forward with delight to their meeting at Edinburgh, it was a delight chastened by a far different feeling, to which, had not these been parting words, he should not have ventured to give an utterance. It was not possible they should all again meet together. Some of those whose voices had been lifted up during this great meeting, whose eyes had glistened at the presence of their friends, and whose hearts had beat high during the intellectual communion of the week, before another year might not be numbered with the living. Nay, by that law of nature to which every living man must in his turn yield obedience, it was certain that before another festival the cold hand of death would rest on the heads of some who were present in that assembly. If a thought like this gave a tone of grave solemnity to words of parting, it surely ought to teach them, during their common rejoicings at the triumphal progress of science, a personal lesson of deep humility. (After dwelling on this sentiment in some sentences which the Reporter could not follow, the President concluded nearly in the following words.) By the laws of nature, before we can meet again, many of those bright faces which during the past week I have seen around me may be laid low, for the hand of death may have been upon them: but wherever we re-assemble, God grant that all our attainments in science may tend to our moral improvement; and

may we all meet at last in the presence of that Almighty Being, whose will is the rule of all law, and whose bosom is the centre of all power.

Dr BUCKLAND then rose and begged in the first place to be allowed in his own behalf and in that of his colleagues in office during the past year, to return sincere thanks for the handsome manner in which the Movers had been pleased to acknowledge their services, and in which the Meeting had so kindly joined. He had now to propose that the thanks of this Meeting be given to Mr Whewell and Professor Henslow, the Secretaries for Cambridge, and to the Cambridge Committee of Management. He had mentioned the names of Whewell and Henslow—he would do no more, these names were their own eulogium; but there were other names that had not been presented before the Meeting, and he knew from last year's experience better than any other individual, the importance of the services of certain Officers most essential to the well being of the Society—those Officers who constituted the working Commissariat of the Establishment—from whom they had all obtained their tickets, and who had devoted their time with honourable zeal to provide for the general accommodation of the Association. They would all receive with acclamation the names of those meritorious gentlemen, which he would now read over to them.

Mr Ash, Christ's College.
 Mr Babington, St John's College.
 Mr Bowstead, Corpus Christi College.
 Mr Currie, Pembroke College.
 Mr Garnons, Sidney Sussex College.
 Mr Heaviside, Sidney Sussex College.
 Mr Herbert, St John's College.
 Mr Hildyard, Trinity Hall.
 Mr Lodge, Magdalene College.
 Mr Robinson, Trinity College.
 Mr Thompson, St John's College.
 Mr Thorpe, Trinity College.
 Mr Whitley, St John's College.

These were the individuals who had worked night and day in their service while carrying into effect the antecedent preparations which had been conducted under the superintendence of Mr Whewell and Professor Henslow.

Professor HAMILTON in seconding the motion, first remarked on the flourishing condition of the Association. He as a Mathematical Student could not but rejoice that he had been permitted here to listen to the Reports which they had heard read—there was danger in such persons shutting themselves up too much from the common sympathies of man—it was useful to himself and others to be called upon from time to time to speak another language before the tribunal of others' judgment; and before what tribunal could any man wish to speak, rather than before this great assemblage of Englishmen, and not of Englishmen only, but of English ladies also? He rejoiced to have met the Association in such a place. For the admirable arrangements that had been made, and the

manner in which they had been presented with such splendid accommodation, he begged to express his acknowledgments in seconding this resolution.

The Motion being put by the President, was carried by acclamation.

The Rev. W. WHEWELL rose and said, that for any exertion he had used he had been amply repaid by the expression of their kind thanks, and by the gratification which he had felt from the atmosphere of high exertions of intellect, generous thoughts, and kind feelings in which he had been living during the past week. One thing he wished to add: he had found that the only way in which he could perform the duties which devolved on him, was by confining himself strictly to the line appointed for him; and if, from this cause, he had on any occasion appeared to any person abrupt or ungracious he now begged him to excuse it, and to attribute it to the proper reason.

Professor HENSLOW said he could not possibly sit down without saying a few words, though he would not at this late hour detain them. That he had devoted some time and trouble to the business of the Association he would not deny, nor indeed could he do so with a good grace. On the first day of the Meeting, their President, in his introductory address, had alluded to the words of a prophet as expressing his own feelings on a subject introduced to them on that occasion. He (Prof. H.) would refer them to the words of one who was more than a prophet, when he stated that he had received now, in this present time, an hundred-fold for any sacrifice he might have made.

Professor AIRY would only detain the Meeting a short time. No duty had been imposed on him, but he claimed the privilege of proposing a vote of thanks to several gentlemen whose labours had been of great importance. He had been delighted to see the way in which the work had gone on during this Meeting, and no part of their proceedings was of higher value, particularly to scientific persons, than the Reports which were read on the state and advancement of science. The character of the Association depended essentially on that part of its Transactions which appeared in print. He had much satisfaction in moving that the thanks of this Association be given to those individuals who had drawn up the Reports, Mr Taylor, Mr Peacock, Professor Lindley, Mr Challis, Mr Rennie, Mr Whewell, Mr Christie and Mr Barlow. They were bound not to omit the mention of those Reports which had been prepared, but in consequence of the shortness of the time had not been read—he would therefore add to his proposition a vote of thanks to Dr Clark and Dr Henry, whose Reports, though not read, would be printed in their Transactions.

Dr ROBINSON, in rising to second this motion, felt it necessary to offer a few brief remarks on one of the points which was stated by the noble Earl Fitzwilliam. To that statement his fellow countryman had alluded, but not in such a manner as to make him think it unnecessary to offer them the suggestions which then occurred to him. In alluding to that noble person he felt himself called upon to regard him with feelings of respect, for the sentiments he had now uttered—he had proved himself a worthy Member of the British Association. That noble lord had expressed an opinion, that perhaps the Reports which were laid before the General Meeting of the Association might be in some instances of

too abstruse a character. In reference to that, he must be allowed to state his own feelings. He did not profess to be a master of abstruse analysis like Airy, or Babbage, or Challis, or,—but he might go through the alphabet; but at the same time he should wrong himself were he not to say that in that respect he at least considered himself as an average specimen of the Mathematical talent of that Association. In such circumstances, therefore, his sentiments might not be unacceptable as expressing the views of those who stood like himself in that medium predicament. It was necessary in the progress of science that Abstract Geometry should hold a prominent place in their Universities. Abstract Geometry was the soul of Natural Philosophy—Abstract Geometry was that mighty lever by which the philosopher had got a point whereon to stand, from whence he could contemplate the movement of the world, nay, of the universe itself—without it the most trifling question that arose in abstract science would be beset with overwhelming difficulties.

The wise, the benevolent advice which that noble person gave to those who were then commencing their studies, of pursuing their mathematical investigations with ardour, was pressed with peculiar force upon his own mind by some of those very abstruse Reports he had just listened to. How many upon hearing Mr Peacock's Report on Mathematics found rising in their minds the feeling that it was necessary to attempt to fathom those mysteries. How many, on the other hand, when Mr. Whewell laid before them with that clearness of illustration which characterized his great talent, and with that lucid explanation of an abstruse subject, that as they listened to him it seemed as if it were of easy solution—how many were there who by that Report felt themselves urged to acquire similar powers—how many must have been determined by it to multiply their exertions. It was right that abstruse mysteries like these should be brought forward, in order that their necessity should be pressed powerfully on the mind of the young aspirant, or he would be for ever grovelling on the ground. Professor Lindley had opened to him a new light on Botanical Science. Mr Challis, one of the profoundest mathematicians of this or any other country, by bringing his mind to bear upon a single subject, had conquered that which had hitherto set at defiance the exertions of so many others. As far as regarded the other Reports, they would be better able to form their judgment on them when they came before the public. He spoke within bounds, and with the conviction that he could maintain his assertion, that some of those Reports were of inestimable value, and to them he owed the gratification and improvement he had now enjoyed. To them he owed it that he was now present at that Meeting. When the Association was first proposed he did not think it would come to much good; but the Reports had convinced him how much he had been deceived. Those Volumes would live, flourish, and be guides to the judgment of posterity, when the materials of which these buildings were composed should have mouldered into dust.

There yet remained another topic, in reference to what the President had said of the tendency of improvement in knowledge to produce an improvement in virtue. It was true, there had been men who called themselves philosophers, but who at least did not shew that they possessed the best part of wisdom, the

regulation of their own lives and conduct; and the excesses of those men had at times been brought forward as arguments against the advancement of knowledge, but without a shadow of reason; such was not the result of the cultivation of science, but the result of an evil disposition; such a man would have been much more vicious if he had continued in ignorance; it rested with every man to draw from his acquisitions of knowledge an increase of happiness—an increase of virtue—an increase of piety. How was it that it had been supposed that the cultivation of abstruse science was at variance with true religious feelings? nowhere could true religious feelings be found except in a conviction of the power and wisdom of Him who was the Creator of all. It was true, that he could mention names illustrious for talent whose scepticism he had to lament, but it was not the study of Geometry which led them to scepticism. It was a more delightful task to refer to names in which the pursuit of science was accompanied by a virtuous life. Should he mention any name it would be that of Newton. Who would say on reading his works that a philosopher must be irreligious. Let him impress on the mind of the young scientific student, that that is not knowledge, but a semblance of it, which does not produce humility; the more a man knows the more he becomes convinced of his ignorance, and is induced to look up with greater reverence to his Creator and his God.

The Earl FITZWILLIAM would be sorry were any person to quit the Senate House under an erroneous impression as to what he had intended to say. He felt grateful to Dr Robinson for having referred to what he had said, because, if a man of his powerful mind had so completely misunderstood his meaning, it was more than probable there might be others under the same misapprehension. He had not stated that he thought any of the Reports of too high and abstruse a nature. While he regretted his ignorance of Mathematics, he expressed his admiration of the higher branches of that science. What he had stated was, that reports upon the more abstruse branches of Mathematics were not adapted to a mixed assembly like the General Meetings; for though there were some great mathematicians at these Meetings, yet the assembly was of a mixed character, and he was sure he could refer to many proofs of the correct view he had taken of the subject. He thought it the very essence of this Institution, that essays on the highest branches of science should be furnished, and the only question was, whether they should be read in this popular assembly of the Association. Dr Robinson referred to Mr Peacock's address, but he (the Noble Earl) would remind them that Mr Peacock's feelings had accorded with his own; for he had given to the Meeting only a condensed abstract of the essay he had written. With respect to Mr Whewell's essay on the Tides, there had been nothing of a technical character in it, and he was sure there were none even of the fair sex who must not have been delighted by Mr Whewell's address. He would also refer to Mr Lindley's essay on Botanical subjects; he (the Noble Earl) had listened to it with the greatest attention, and he had done so, because to a certain degree he had made that subject his study; so that at least what the Professor had said was not Hebrew or Sanscrit to him; but still he thought that some part of the Report had been too abstruse for the mixt character of the assembly.

The motion was then put by the President and carried unanimously.

Mr MURCHISON stated that he was one of that grovelling body of philosophers who hammered their way through the world; a motion had been put into his hands which it gave him peculiar pleasure to propose, because having had the good fortune to be present when the Society was first founded by the Meeting at York, he was the more competent to give his testimony on the subject. The whole nature of their constitution had been laid before them so eloquently, that he had only to testify his thanks to the legislator, the Rev. W. V. Harcourt, for that gentleman had drawn out the whole code of laws by which the Society had been governed. He would at once propose that the cordial thanks of the Association be given to the Rev. W. V. Harcourt, for the skill with which he had organized the British Association, and the ability with which he had discharged the duties of General Secretary.

The Rev. WM. WHEWELL in seconding this motion, bore testimony to the great exertions of Mr Harcourt in forming the plan of the Association, and to his subsequent devotedness, and attention to its interest.

The motion having been put was carried amidst the loudest cheers.

The Rev. W. V. HARCOURT said, that occupied as he had been that morning by the duties of his office, he was ill prepared to thank the Meeting as he ought; and embarrassing as it was to be called before them, it was the more so, because he felt that he was not on his own account entitled to be thus singled out. Considering himself, however, as called upon to represent the first Members of the Association who had assembled at York, he was happy to have an opportunity of bearing witness to the alacrity with which persons came forward on that occasion to accomplish what they considered a useful and important object. To induce a man to engage in the adventurous attempt of forming such an Association as this, two things were requisite—first, that he should fully comprehend the importance of the object in view, and give it its due weight in his mind; and secondly, that he should have the moral courage necessary to carry it into effect. He did not say this with respect to himself; having no reputation to lose, he had nothing to risk; but there were persons sitting near him who had established a reputation of the highest kind; and those persons in coming to York, supported by a comparatively small number of individuals, for the purpose of setting on foot an Institution of so comprehensive a character, had undoubtedly run a great moral risk—that of engaging in an enterprize which they might not have been able to carry through—that of incurring the disgrace of a failure. They had however run that risk—feeling a just and generous confidence in their brethren in science, they had run the risk, and this was the glorious result of their experiment; and he would venture to say, that among all the brilliant and important experiments of which Sir David Brewster was the author, there was no one experiment in which he had been more successful than that of originating the British Association.

The PRESIDENT then rose. The General Committee must, he said, re-assemble for a short meeting at half-past seven o'clock. To the many other persons present he would say, that he once more thanked them for their kind support whilst he had presided in their chair—that they were among the first men, with whom, during

the remainder of his life he should hope to live on terms of friendship and good-will—that they were among the last men whose good opinion he could bear to forfeit. Gentlemen (he added), after the long session of this morning, I have no right, nor have I the strength, to trespass on your attention any further; it therefore only remains for me to bid you from my heart adieu, and to dissolve this happy Meeting.

COLD COLLATION AT TRINITY COLLEGE.

As soon as the Meeting in the Senate House had dispersed, about five hundred and seventy of the Members of the Association repaired to the large hall of Trinity College, where an elegant cold collation had been prepared; the President of the Association taking the chair. The collation was given by the resident Members of the University. The dinner having concluded,

Non Nobis Domine was sung by the choir. The health of the King, and the Queen and Royal Family, having been drunk,

The Rev. W. V. HARCOURT rose, and said he had been present some years since in the hall of Christ Church, Oxford, when the great Sovereigns who had accomplished the peace of Europe were entertained there, and a most imposing sight it was; that peace, which had endured ever since, had restored the intercourse, the social and intellectual intercourse of the civilized world; and it was an imposing sight to see it, as it were, signed and sealed in England. But of all the sights he ever beheld, whether in a moral, intellectual, or social sense, whether he considered the persons collected together, or the feelings by which they were collected, the most striking sight he would not say, but that which was the most moving to him, was the sight that was now before him. Of all that had passed during this interesting week, when they had been enlightened by so many rays of instruction from so many quarters, he must say, as far as his own feelings were concerned, that which had gratified them the most, and from which he had received the greatest degree of instruction, was when he heard their admirable President illuminate with the radiance of his powerful and well-informed intellect, subjects of the highest moral importance—moral did he say? Let him add also of religious importance—(*cheers*). A friend who sat on his left hand had been reminding him of the answer of Bousset to one who asked him whether Fenelon “*avait de l’esprit* ;” “*de l’esprit*” replied Bousset “*a faire peur*.” But he would say of their President that he possessed a genius to excite both admiration and love. Of all the privileges that he had enjoyed on this occasion, and those privileges and enjoyments had not been small, he considered it the greatest privilege, and that which at the same time afforded the greatest gratification to his own feelings, to be called upon to give the toast of “Prosperity to the British Association;” and to couple with that toast “the health of its President Professor Sedgwick. (*Loud applause.*)

The PRESIDENT rose amidst long continued cheering, and observed, that the labours of the week had so nearly exhausted him, that he found it physically impossible to give expression to the feelings which then filled his breast. He had ventured that morning, when addressing them in the Senate House, on topics

dangerous to handle at a public meeting—he had ventured on hallowed ground ; but he hoped he had escaped without infringing on decorum, or using an expression unfitting to the occasion. It would ill become him at that festive board, (a place far different from the one they had so lately quitted, which, though not a place of worship, had been made a temple of philosophy,) it would ill become him there to touch on topics of a sacred nature, nor would he detain them now by repeating what he had so lately said before. He would just allude to the glorious circumstances under which they were assembled. They had met together in the kindest sentiments, with a resolution of co-operating, and of carrying into effect the intentions of those excellent men who had founded this Association ; so far they had succeeded, and he could not doubt of their continued success. He looked forward with pleasure to the Meeting at Edinburgh, the capital of the north, where there would be local advantages of the greatest value to them. Nor was there any man, he thought, who was connected with philosophy, whose feelings would not be strongly excited at the thought of treading on the ground for so many years trodden by Sir Walter Scott. (*Cheers*). He looked forward also to the great success of the Association from the co-operation and exciting energies of those men whom by their votes they had just placed in office. He looked forward with delight to the noble presence of their President elect, to the commanding energies of a man who had enjoyed command in the battles of his country and in the hour of victory, and who had kindled up the light of philosophy in the antipodes of the old world. He anticipated much from the splendid abilities of the Vice-Presidents, and from the assistance of the distinguished Secretaries. In regard to himself the company must believe, and express for him in their own minds, all that he ought to say, for he really was incapable, from mere exhaustion, of saying what he wished. Before he sat down he must allude to the eminent services of his friend, the General Secretary—the mainspring of the Association, Mr Harcourt. To tell the Members of the Association how much they owed him, would be only repeating to them what they already knew. They were aware that to him they were indebted, not merely for the consolidation of their laws, but for the composition of the first Report—and he would say, that the spirit of kindness and cordiality they then had all experienced from Mr Harcourt, had been begun by his excellent father, the Archbishop of York. It was his (the President's) misfortune to have been prevented by other duties from attending the Meeting at York, but he knew that it was to the kindness and hospitality of the distinguished Prelate he had just named, that the Association owed much of its first success. Some of them might think lightly of external patronage, now that they had no need of it: but the hospitality to which he just alluded was honourably proffered at a time when the Association existed but in name, while the principles of its action were ill defined, and while some of its best supporters almost despaired of its future fortunes: it was offered at a time when the Association, commencing from comparatively small beginnings, stood most in need of that which might give it the good hope of future increase, by securing the harmony of its existing members. After again thanking the company for their kindness, the President resumed his seat.

The Marquis of NORTHAMPTON said, that in rising to propose a toast he should not be guilty of the bad taste of detaining them at any length—because he felt, in the first place, that there had been so much speaking in the course of the day as must almost have fatigued them—and secondly, that they had just heard such a specimen of social eloquence, (*alluding to Mr Harcourt*), he was sure anything that might follow from himself would be in the worst possible taste. Mr Harcourt had wished success to the British Association—he had a right to do so, for whoever might be its children they would only be his own grand children. The toast he had to propose was, “Prosperity to the Master and Fellows of Trinity College.” He addressed them as a grateful and loving son; and he had that day given the best proof that these were his sentiments, by entering his own son on the boards of Trinity College; and he hoped that his children, and his children’s children would ever belong to it. He hoped also such would be the case with those of all its present members—for it was impossible for any man to belong to that College and not to be proud of the connexion.

The VICE-MASTER returned thanks.

Their kindness, he said, had imposed upon him a task of no ordinary difficulty, when he rose, in the name of the College and of himself, to tender their grateful acknowledgement for this warm and ardent expression of approbation from the Members of the Association: and if he failed, as fail he must, in making an adequate return, he hoped it would be attributed to anything rather than to a want of feeling. Indeed his own feelings had been highly excited in a variety of ways; and, if he ever had been sceptical respecting the advantages of such a Meeting as the present, he now confessed that he was more than a convert. He was not aware that he had ever felt more powerful intellectual interest than in the Meetings of the Sectional Committees, and had only to regret that it was not in his power to be a more constant attendant at them. His, he believed, was not a solitary feeling.

Never, he conceived, had there been such a concentration of the spirit of inductive philosophy; and never had that spirit shot forth with more vigorous growth. If he were not mistaken, he fancied that he had marked the glow of enthusiasm flushed on many a cheek, and glistening in many an eye; and if he might be allowed the metaphor, the concentration of this Meeting, like the overcharged battery of an electrical machine, had dispersed its sparks in all directions.

It was not improbable, he continued, that in this place the first germ of the inductive philosophy had originated in the mind of Bacon; and certain it was, that for many years, his early and ablest pupil had here pursued his patient researches. These great men gave both the rule and the example: and that man was but little gifted with the poetry of imagination, who could not picture to himself with what rapturous delight Bacon and Newton would have stretched forth the right hand of fellowship and encouragement to such dutiful, and therefore successful disciples. Many of these illustrious individuals they had enjoyed the satisfaction of beholding within those walls; and that man’s feelings were little to be envied, who could not appreciate the honourable distinction of being visited by the wise and the good. But upon all this it was their pleasure to accumulate

an almost overwhelming load of additional gratification: and therefore he could only again express how sensibly they (the College) felt that kindness with which their efforts—certainly their well meant efforts—had been received, of rendering themselves worthy of entertaining such distinguished guests.

Professor FORBES said that he rejoiced and felt honoured in having to propose a toast which might well meet with responding sentiments from all present. He was at a loss to express all that he felt himself, but their own feelings would enable them to appreciate his. He would not therefore detain them longer, but propose the healths of the Members of the British Association resident in Cambridge, to whom they were indebted for the splendid banquet to which the whole body of the Society had been invited on that occasion.

Mr PEACOCK rose and said, if he had been backward in rising on the present occasion, it had originated in a hope that some other gentleman of higher academical rank, and better qualified than himself, would have returned thanks for the great honour which had been done them. He hoped therefore that they would pardon the great liberty which he was taking in presenting himself before them, in order to perform this duty. He rose, he begged leave to say, under the influence of the most excited feelings to thank them, and to express, however inadequately, how much the Members of the University felt gratified in having the honour of entertaining such distinguished guests as he then saw around him. He could indeed venture to state, and he spoke with the authority of no short or inconsiderable experience, that the University of Cambridge was proud of every occasion of shewing her sympathy with the advancement of science. He felt it to be impossible to refer to any period of his own life, and he might further say, that he felt it to be impossible to refer to any period in the history of the University, when that Hall had received such an illustrious company of men, eminent in every department of human knowledge: and it was an idea which naturally presented itself in such a presence, that the two great men whose portraits were before him (pointing to the pictures of Bacon and Newton) the one the founder of the inductive philosophy, and the other its most distinguished cultivator, could they for a moment be reanimated, would start forth from the canvas and hail with rapture and delight so glorious an assemblage of their disciples as they would now see around them. He (Mr P.) felt himself incompetent to attempt, and after the noble displays of eloquence which they had listened to, it would be unbecoming in him to attempt, even if he were better able to do so than he was, to enter upon the discussion of those topics upon which all present had been more or less engaged during the preceding week, and he would therefore confine himself to the immediate subject which had caused him to come forward, and as a resident Member of the University, and a Member of the Committee to whom the care of providing their entertainment was entrusted, he begged to say that their exertions to prepare for their proper reception had been most willingly and most cordially given, and he would appeal to those gentlemen who sat at the head of the several tables, to Mr Currie, to Mr Ash, to Mr Bowstead, to Mr Lodge, and to Mr Hildyard, who had devoted the whole of the past night to making such arrangements as might enable them to accommodate in a proper manner

every Member of the Association who was in Cambridge, whether they do not feel themselves more than repaid for any exertions which they could possibly have made, in witnessing so glorious a sight as that which was now before them. He therefore begged leave in conclusion, in their name as well as in his own, to express to this great company their most cordial thanks for the honour which had been done them, and to assure them that this day would be long remembered as one of the proudest which they had ever witnessed, or which they could ever expect to witness in the course of their lives.

The PRESIDENT said, if he had not felt so much fatigued he should have considered himself called upon to return thanks for the honour done to the resident Members of the Association, not because he had taken an active part in the preparations, but because it would have been his duty, as the Chairman, to have answered for them. He rejoiced, however, that he had not been so called upon, because he wished other men, who felt like himself, to state their sentiments, and come before them with the expressions of those kind feelings he was proud of as being the true sentiments of philosophy. He should propose in succession the prosperity of all the Universities of the world, and begin with England; in which he wished to comprehend all those Establishments, both old and new, where useful knowledge was inculcated, and he cordially wished them all success. He should begin therefore by giving the English Universities, and couple the toast with the name of Dr Buckland—(*much cheering*).

Dr BUCKLAND said, he had felt himself fixed in a proud position since the moment when last year he had been placed in the distinguished chair in which his excellent friend was then seated. He wished it had fallen to more able hands to answer for the illustrious bodies comprehended in the toast then proposed. He was summoned to answer both for those Universities which exist and for those which are hereafter to rise up—for those institutions which, if they might judge from what was passing around them, were so ably promoting and increasing the spread of science and learning. If there was one particular reason above another for which he at the present time felt proud of being a Member of the University of Oxford, it was from the high gratification he had first experienced at witnessing that splendid exhibition of pregnant eloquence with which their excellent Secretary had for a few minutes favoured them. Among the many gratifications which had flowed in upon him, from his honourable connexion with this University, it was not the least that he had been admitted to the same degree at Cambridge which he had the honour of enjoying at Oxford. As a Member of the University of Cambridge he felt much pleasure in alluding to the strain of eloquence which they had witnessed from the excellent Vice-Master, to whose hospitality they were much indebted, and to the vivid flow of oratory with which they had been favoured from Mr Peacock. As a Member of this University and also of Oxford he rejoiced in the gratifying fact that the Universities of England were occupying the place they ought to take in forwarding by every means the prosperity of the British Association. If any proof were wanting of the wisdom of their forefathers in the erection of those establishments which constituted the English Universities, on the ruins of the monastic institutions, it was to be found in the use which was

at the present moment made of those benefits in promoting literature and science. It was recorded of the founder of the College of which during 25 years he had been a Member, of Richard Fox Bishop of Winchester and founder of Corpus Christi College at Oxford, that the first idea which he had conceived of his intended foundation was to make it a Seminary for a Monastery at Winchester: on his communicating this intention to his friend Hugh Oldham, Bishop of Exeter, that judicious Prelate and Benefactor is said to have diverted him from his purpose by the following remarkable address. "What, my Lord, shall we build houses and found Seminaries for a set of idle Monks whose end and fall ourselves may live to see? No, my Lord, let us rather found Colleges for the encouragement of good learning, and of such as by their learning, shall do good service to Church and Commonweal." He begged in conclusion to propose that they should drink the health of, and offer their most sincere thanks to the Vice-Chancellor and Senate of the University of Cambridge, for the splendid accommodation they had afforded the Members of the Association—(*cheers*).

The PRESIDENT said, he had received from a friend at the lower part of the hall, an autograph, and the words scrawled upon it were, "time! time! time!" What they were to understand by those symbols he hardly knew; he supposed the author meant that time pressed triply hard upon him. He might perhaps be some fond lover of music, who was anxious to lose nothing in that hall, and yet had his heart in another place. He (the President) had next to give the University and Academic Institutions of Ireland, and he wished the toast not to have a limited interpretation; he wished it to comprehend every institution there established for the cultivation of good learning. There was no circumstance connected with that Meeting more delightful to him than the fact that some of the most distinguished individuals of the sister University over the water were present, who had used so much power and activity in pushing on the great work of the Association. The Provost of Trinity College Dublin had been present at their Meetings, and his son was also among them, than whom there was not a more active gentleman in the pursuit of science. Professor Hamilton was also present—a man who possessed within himself powers and talents perhaps never before combined within one philosophic character. He had no time to go on, and it would be almost invidious to select individuals. They had more than once heard the eloquence of Dr Robinson; who had on one occasion been dragged forward, without the habiliments of the stage, to perform a part in their public theatre. He would not insult them by attempting to repeat what he had so well said, nor was it necessary to tell them what a prominent part this gentleman had taken in the most important discussions of the Sections. Nothing had more promoted the best interests of the Association than the presence of those illustrious men from the sister kingdom. Without further preface he would propose, The University and Academic Institutions of Ireland.

Professor HAMILTON, upon being called for, begged to present his acknowledgements to the Meeting, for thus calling on him. When he heard the toast given, he had little imagined they would have done him the high honour of calling upon him to return thanks. He had thought the Provost of Trinity College Dublin had been present; but as he was not, Professor Robinson was far more entitled than

himself to have had that favour conferred upon him. When he had first met the Members of this University, it was as a perfect stranger, and only as a brother Member of the Association; but this day he was surrounded by brother Members of this University—they having been pleased to confer upon him that high distinction. He had profited greatly by the Meetings of this Association. (We much regret our inability to report the remainder of an eloquent and highly imaginative speech, as it was delivered with great rapidity, and indistinctly heard by the Reporter. He sat down amidst great applause.)

The PRESIDENT began by stating, that nothing but the force of circumstances beyond his controul, should have compelled him so soon to interrupt by a new toast, the impression produced by the gentleman who had just sat down: he must however go on; and his task was a delightful one—he had to propose the prosperity of the celebrated Universities of Scotland. In joining him in that toast, their minds would naturally be drawn towards the University of Edinburgh, near the walls of which the British Association would be next year assembled. To tell them how much they owed to gentlemen connected with that University, would only be to repeat a thrice told tale. But he had to introduce to them another Associate—to mention a new and illustrious name, the sound of which would raise within them every sentiment of exultation compatible with Christian joy. He rejoiced above measure that, now at the eleventh hour, a great practical philosopher was come among them from the University of Edinburgh—one whose ample shoulders and well knit frame had been equal to the support of every load the necessities of his fellow beings could heap upon them—who in early life had taken his place as a successful cultivator of the exacter sciences—but who had since, for he believed a quarter of a century, been labouring, as a political philosopher, a moralist and a divine, for the social comforts and everlasting happiness of his fellow beings. One who had not merely speculated on most noble ends, but had pursued them with a physical and moral energy, he believed, not matched by any other living man. He (the President) had told them, only a few hours since, that as an associated body they could not venture upon moral speculations. But this did not hinder them from honouring in another what they, in their corporate capacity, could not do themselves. He believed that during the past week, while he had presided in the chair, no one had accused him of canting; yet he had more than once, in the way of allusion, ventured on moral speculation: and in speaking of physical discoveries, had told them that none but grovelling minds could rest satisfied among such truths; that all the beauty of physical truth was from a reflected light, and that all its honour was in this: that it was a step towards other truths of a far loftier grade. And sentiments like these had been received by them, not with a cold and heartless acquiescence, but with unfeigned warmth, and with looks of mutual gratulation. They knew well that what he was saying was true; and sincerely did he rejoice that the great philosopher to whom he had just alluded had been present to witness its truth. They must all be aware of the name he had alluded to—they were all aware of the noble efforts for the good of man, made without ceasing by Dr Chalmers; whose coming to this Meeting, though at so late an hour, had given him (the President) a feeling of

delight beyond what he had before experienced, though he had thought before that his cup of joy was full—(*loud cheers*). He would not insult them by supposing them ignorant of the labours of this Christian philosopher. With an energy and commanding eloquence, belonging to him alone, enabling him to bear before him the learned and the great—with a consciousness of powers which would have made most men prize the noisy world too much, he had never for a moment shut his ears to the whisperings of humanity. If his voice had been heard in the halls of philosophy, or amongst the assembled multitudes of the capital, it had been when he was pleading for the moral good of man, and above all, for the good of the humbler classes of society. With this feeling he had sought out the haunts of misery and of crime, and had done his best to drive off the moral plague with which the social fabric had been tainted. In this way had he gone on, toiling not for his own glory, but for the good of his fellow-men, and approving himself a faithful servant of his Lord and Master. But for a topic like this, he (the President) had no longer any strength, nor should he dare to trust himself any farther with it; he should therefore sit down after giving, The Universities of Scotland, and with them the health of the distinguished men (two of whom he was delighted to see near him), Dr Chalmers, Sir David Brewster, and Professor Forbes.

Dr CHALMERS, in rising to return thanks, assured them most honestly, that as an humble individual from a distant part of the country he did not expect to be so signalized—they had taken him by surprise, and he was not prepared to give an adequate expression to his feelings; but their kindness had awakened in his heart the most lively sentiments of gratitude. He begged leave to return them his thanks in the name of the Universities of Scotland, and more especially of Edinburgh, to which he had the honour to belong. He was sure he only did justice to the feelings of his countrymen, when he expressed his confidence that the British Association would meet with a cordial welcome in Edinburgh. They could not pretend to rival the English Universities in the magnificence and number of their buildings, although they possessed enough to provide for the business and meet the objects of the Association. But though they could not promise the same ample and various accommodation which they had enjoyed in Cambridge and Oxford, they would do their best to endeavour to make up for the want of these by a hearty good will and by endeavouring to equal them, for to exceed them was impossible, in the warmth of their Scottish hospitality. He never addressed an assembly of Englishmen without being weighed down by the excessive consciousness of his provincial dialect, and if he could only obtain the conviction that he was but tolerable, or even that he was intelligible, or at most that he was sure of the same indulgence which an Englishman would extend to a Dutchman, he would go on—but he would not now trespass on the patience of the Meeting beyond the space of a few minutes. During a long interval of twenty-four years he had been separated from the study of the natural sciences, and had been exclusively connected with men of another class; but he was sure there was no class of men who looked upon the progress of philosophy and the prosperity of this Society with greater kindness than the enlightened Christians of Edinburgh. In the spirit of that

sentiment which the President had expressed in an early part of the day with a power and beauty he had never heard surpassed—"that Christianity would follow the advance of Science"—he would say that Christianity had every thing to hope and nothing to fear from its advancement. It was true, very true, that Christianity had been traduced by men who called themselves philosophers—but who were the disciples merely of a second rate philosophy. There was a humility of mind, the offspring of true philosophy, which manifested itself in well constituted minds; and chief of all in that of the great Sir Isaac Newton, the glory of Cambridge, and more especially the glory of Trinity College, who was regarded by universal consent as the parent of all philosophers, and who was, notwithstanding, the most engaging specimen both of religion and humanity the world ever saw. He should then beg leave to give as the next toast, Trinity College, Cambridge, accompanied by a wish that the science of Newton consecrated by the Christianity of Newton may for ever be enshrined within her walls. (*Loud cheers.*)

The VICE-MASTER rose to return thanks, and trusted that they would appreciate the remark the Rev. Dr had just made. He believed that in the progress of science whatever tended to enlighten the mind of man would lead his feelings to that proper end, so that he might become acquainted with the wisdom, the power, and the benevolence of the Deity. It might not perhaps have the same effect as it had on Newton, because his feelings might not be so enlightened; but it would have a profitable effect, and he was sure that every advance he made would bring him nearer to his Creator and make him a better Christian.

The PRESIDENT then gave, The public Establishments for the advancement of Learning and Science all over the world.

The PRESIDENT said, he must go on with his list of toasts. They could not have carried on the business of the Association without the cordial co-operation of their general Secretary, their excellent friend the framer of their whole working system, Mr Harcourt, and without the able assistance of his excellent friend Mr Phillips of York. If it had not been for the peculiar circumstances under which he was speaking he should have enlarged upon the merits of such men as Dalton, Peacock, Greenough, Haviland, Clark, and Garnons, the Presidents of the Sections. But it was quite idle to run over such names, unless they could have the pleasure of drinking the health of each in turn, and therefore he would propose at once that they should drink the healths of the Presidents of the different Sections, of the General and Local Treasurers and Secretaries, of Mr Yates the Secretary of the Central Council, and in short, of every gentleman who had toiled officially in performing the duties of the Association.

Dr DALTON rose and said, he did not expect to be called upon in this manner when he sat down to dinner; however, as it was the case, he should express in a few words what he had to say. He had come to this place anticipating a great deal of pleasure from treading on the same ground which Bacon and Newton had trod before—that alone would have been a high gratification; but the addition of such an assembly as they had had, and the quantity of scientific information thrown before them, was a still greater gratification; and to find these subjects so combined with religion and morality would be a most powerful stimulus to fresh exertion.

The Marquis of NORTHAMPTON said, he had been requested by his friend the President to propose a toast which they would have great pleasure in receiving, it was the health of those Foreign gentlemen who had favoured them by attending the Meeting. The noble Marquis passed a high eulogium on the talents and acquirements of these individuals, and on their exertions in the pursuit of science, and expressed to them the delight the Association and the Members of the College experienced in receiving them on this occasion.

Mr BRUNEL in a very animated speech, adverted to the motto on the plate of Trinity College, "*virtus vera nobilitas*,"—with this he agreed, and was convinced that the true pursuit of knowledge would lead to a moral and religious sentiment. He also alluded to the handsome manner in which the foreigners had been treated since they had been in Cambridge, and concluded by returning his best thanks for the kindness he had received.

The PRESIDENT thought he could not have paid the distinguished foreigners a higher compliment than by requesting a man of the highest rank in the room to propose their health. He was unable to speak himself through fatigue. He was now compelled to give, in one toast, all the Scientific Institutions chartered or not chartered, of the united empire. The Royal Society stood above all the rest as the parent Society, and Mr Davies Gilbert was present as its representative.

Mr DAVIES GILBERT in returning thanks said, that he was sure every society in the united kingdom looked with pleasure on the formation of other societies, and they could none of them feel the least jealousy of this Association, but on the contrary must wish it every success. He cordially participated in the sentiments which had been so well expressed, and which he would not at that hour occupy their time by repeating.

On Saturday Professor Henslow conducted a party, consisting of between forty and fifty in number, among whom were several distinguished naturalists, on an excursion down the river, as far as Upware, and into Bottisham and Burwell Fens. Various topics of scientific interest were discussed during the excursion, and more especially the utility of establishing such a scale of colours as might be generally adopted in describing objects of natural history. The day proved fine, and the botanists were gratified by procuring several fen plants which they had not before met with in other parts of the country. Professor H. pointed out a species of *Chara*, which he had first observed in Bottisham fen about six years ago, and had always considered to be either a very distinct variety of *C. gracilis*, or not improbably a species new to Great Britain; and Professor Agardh, who was present, pronounced the plant to be his *Nitella hyalina*. Among the party were Professor Agardh (of Lund), Messrs Blackwall, Brunel, Professor Burnet, Mr Curtis, Dr Daubeney, Messrs Garnons, Greenough, Jerdan, Sir C. Lemon, Messrs Selby, W. Smith, Stephens, Strickland, Trevelyan, &c. &c.

LIST OF MEMBERS.

[Those who have compounded have an asterisk prefixed to their names. The names in italics are those of foreign Gentlemen who attended the present Meeting. The figures refer to the folios on which the lithographic signatures occur.]

* HIS ROYAL HIGHNESS THE DUKE OF SUSSEX, K.G.

PRESIDENT OF THE ROYAL SOCIETY.

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Abney, E. H., Exeter College, Oxford.	
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Adams, John, Christ Church, Oxford.	
Adamson, John, M.R.S.L. F.L.S. F.S.A. L.E. and Copenhagen; Corr. Memb. of Royal Academy of Sciences at Lisbon; Secretary of the Antiquarian, Literary, and Philosophical Societies of Newcastle-upon-Tyne.	
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Ashley, Rt. Hon. Lord, M.A. M.P. F.R.A.S 20, New Norfolk Street, London.	
Aspland, Rev. Robert, Mare Street, Hackney.	
*Atkinson, James, York.	
Atkinson, William, B.A. University College, Oxford.	
Auchmuty, S. F. Brazenose College, Oxford.	
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